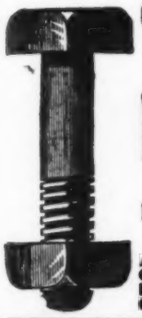
The American Artisan

THE HARDWARE RECORD

Vol. 44—No. 22 CHICAGO, NOVEMBER 29, 1902. $2.00 Per Year.



Columbus Bolt Works,

Columbus, O.

Bolts, Nuts, Washers, Turn Buckles,

Bridge and Roof Rods and **Bolts**

ALL KINDS OF CARRIAGE FORGINGS, ON APPLICATION. CATALOGUE

PURE ASPHALT "SAMPSON BRAND" ROOFING

Never Dries Out or Cracks. Planet Brand Tarred Ready Roofing, Slaters' Felt, Building Papers, Roofing Cements, Paints, Etc. WRITE US FOR PRICES.

J. L. PERKINS & CO., 235 Lake St., CHICAGO

AMERICAN SEAL STOVE PUTTY

Odorless—Never Cracks—Never Crumbles—Never Falls out. Makes tight joints, and prevents the escape of gas or ashes.

ASBESTOS FURNACE CEMENT

Bakes hard as the iron itself—Strictly Fireproof—Perfect Non-conductor

Try a sample order of either of the above and be convinced of their superiority. If you are not satisfied return the goods at our expense. Put up in any size package from a pound can to an 800 pound barrel.

Insist on having AMERICAN SEAL. Every package bears above trade mark

Manufactured by

THE WM. CONNORS PAINT MFG. CO.

TROY, N. Y.

Western Agents: J. L. PERKINS & CO., 235 LAKE St., CHICAGO, ILL.

STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

Nicholson File Co.

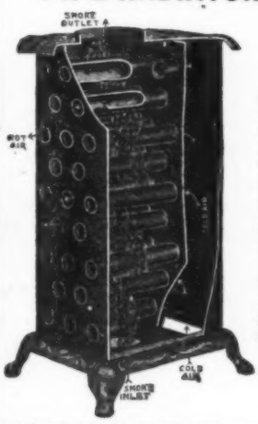
GENERAL OFFICES: PROVIDENCE, R. I., U.S.A.

Manufacturers of

FILES and RASPS

NICHOLSON, KEARNEY & FOOT, ARCADE, AMERICAN, GREAT WESTERN, McCLELLAN, EAGLE, J. B. SMITH, "X. F." GOLD MEDAL.

INDEPENDENT STOVE PIPE RADIATORS.



Don't Buy Radiators Without Learning About the INDEPENDENT for 1902.

INDEPENDENT REGISTER CO.
CLEVELAND, O.

ATLAS BOLT & SCREW CO.

CLEVELAND. O.

We make a full line of

Stove Bolts, Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wire,
Rivets,

Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

BRADLEY SHELF BRACKETS.

Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

E. J. JOHNSON & CO.,

38 PARK ROW, NEW YORK,

Producers of

ROOFING SLATE

Slate Blackboards. Write for delivered prices.

Black Diamond Files and Rasps.

PERFECT—ALWAYS

Twelve Medals Awarded

At International Expositions.

G. & H. BARNETT CO.,

Black Diamond File Works, PHILADELPHIA, PA.

THIS SPACE FOR SALE

Inquire of Owner

Daniel Stern, 69 Dearborn St.

CHICAGO

BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.

New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

Lake and Dearborn Sts., CHICAGO.

"TABASCO" WATER HEATERS

All Steel, Self-Feed Shaking Grate

FOR

Small Residences, Green Houses, Flats, Hotels, Baptistries, Bath Houses, any place a supply of hot water is needed.

Send for Catalog.

KEWANEE BOILER COMPANY

KEWANEE, ILL.

CHICAGO STORE: 167-169 E. Lake St. CHICAGO.

THE SCARCITY OF COAL

makes the householder's heating problem doubly hard to solve this season. We want to have you send to us and let us tell you how

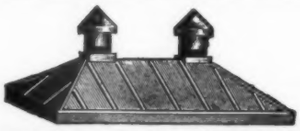
The "Columbia"

OUR NEW PORTABLE BOILER

Actually Will Save One-Quarter of Your Fuel Bill, while giving you the most perfect comfort you have ever enjoyed. This boiler has been thoroughly tested and found to be perfect in every respect.

VANCE BOILER WORKS, Geneva, N. Y.

JOHN S. KANE, 91 DEARBORN STREET, CHICAGO.



"THE ILLINOIS"

METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free. We are prepared to furnish ribbed skylight glass at very reasonable prices.

J. H. JONES, Mfr.,

Lock Box 33. STREATOR, ILL.

MAYER & COMPANY

"Eagle" Brand Copper Rivets and Burrs.

STANDARD FOR QUALITY. (Lake Superior Copper.)

—MANUFACTURED BY—

THE PLUME & ATWOOD MFG. CO.,

29 Murray St., NEW YORK. 196 Lake St., CHICAGO, ILL.

The Champion Hot Water Combination Heaters

They Fit Any Furnace

Base section when used without ring sections.

Ring Section

These Heaters are made in five sizes diameter, and from 100 to 700 square feet radiation capacity.

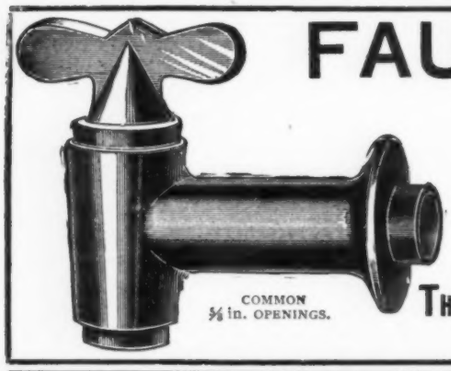
Will heat those cold rooms or an addition to the building. Will increase the capacity of any furnace. Are cheaper than coils and will do more work.

Write for new circular. Manufactured by

FRANK D. STOLZ

115 Lake Street CHICAGO, ILL.

FAUCETS.



COMMON ⅝ in. OPENINGS.

Beer

Milk Can

Oil Can

Cream Separator,

of Various Sizes and Styles.

MFD. BY

THE CLARK NOVELTY CO.

ROCHESTER, N. Y.

J. T. Walbert & Son, Paducah, Ky., write: "Our advertisement in your paper proved effectual."

SMITH'S

LITTLE GIANT
CIRCULAR GIANT
MALTESE GIANT

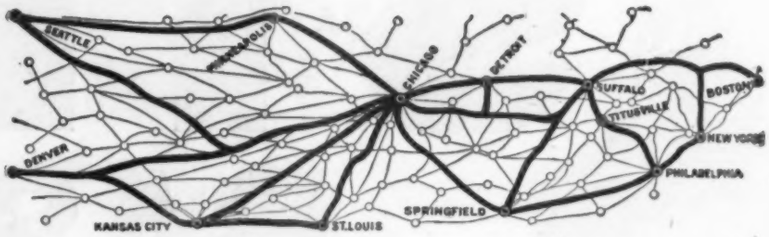
Can be used in any furnace and will heat your cold rooms.

THEY HAVE NO JOINTS

...Send for Catalogue...

CHARLES SMITH COMPANY

122 LAKE STREET, CHICAGO



"'Tis November! The Air Grows Winterly!"

We have very largely increased our manufacturing facilities, in consequence of which we are able to make immediate shipment of Radiation at this, the height of the heating season, when

Special Hurry Shipments

are required, or an "eleventh hour" alteration in a job makes it vitally necessary to quickly have a few additional Radiators or loose sections. Then customers appreciate why we carry for them such immense stocks at so many large business centres—note geographical locations in map above—connecting direct with every leading transportation line in the U. S.

We were never in better position to ship promptly

Our stocks were never more complete in assortment in One, Two, Three and Four Column, Steam and Water. Write or wire us the quantity, style and height of Radiators wanted and we will name early, definite shipping date.

Faithfully yours,

AMERICAN RADIATOR COMPANY

New York,
Boston,
Philadelphia,
St. Louis,
Buffalo,

Minneapolis,
Denver,
Detroit,
Seattle.

GENERAL OFFICES:
Lake and Dearborn Sts.,
CHICAGO.

STEW

BASE BU

FIVE complete lines of thoroughly mo
any competition. Do you want to cont
Adres

Radiant Stewart.

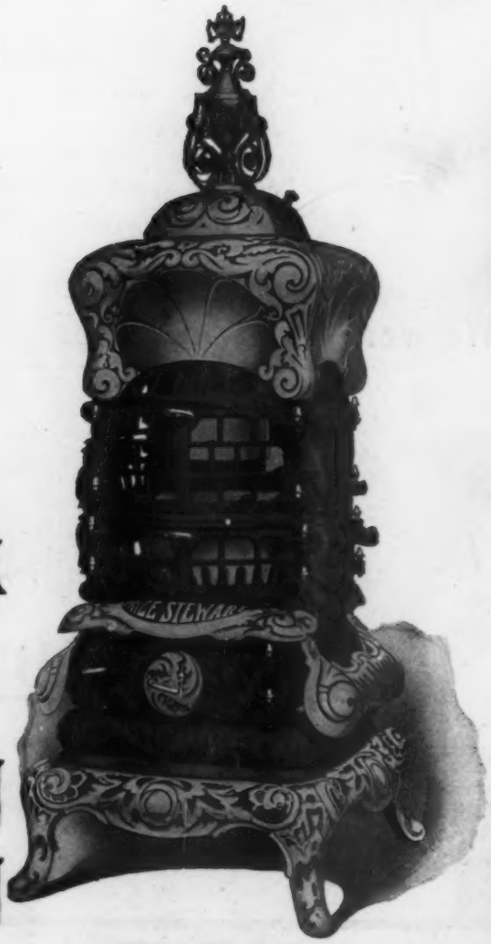
The Fuller-W

MILWAUKE

THE NA

STEW

Beautiful
Nickel
Work



Prize Stewart.

PERFECT IN
OPERATION

MAN
SOMTH
EXCL

WART BURNERS

hly modern Base Burners, graded to meet
to control such a line in your city? If so,
Address

er-Warren Co.
AUKEE, WIS.

HE NAME

Radiant Stewart.

EWART

Art Stewart.

The Best Grate on the Market

MANS
OMTHING
XCELLENT

LARGE RADIATING SURFACE

WHITE'S STOVES & RANGES

The Fuel Savers.

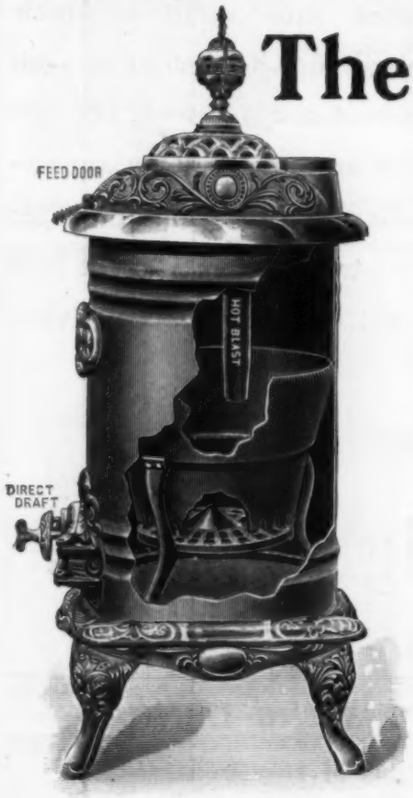
The Best Line To Sell.

Thos. White Stove Co.

Quincy, Ill.

GOLD COINS ARE WINNERS

The Gold Coin Hot Blast



Is adapted for hard coal, soft coal and lignite; is made in three sizes, with or without ash pan. It is superior to anything of its kind on the market, being more substantial in construction and elaborate in design and ornamentation. The hot-blast down-draft flue conducts the hot air to center of pot over the fire, and mixing with gases from the surface of the fuel insures perfect combustion and makes it an absolute fire keeper. Trimmings consist of Nickel side rails, name plate, top ring, swing top, urn, knobs, etc.

Guaranteed perfectly air-tight.

Gold Coin Wood Hot-Blast Ventilator

For wood only. A revelation in wood-burner construction. Compare the fire-pot with any other heater. The perfect hot-blast and large ventilating flues are exceptionally strong features. Superior to anything ever produced for burning wood. They are indestructible; one-piece fire pot; large feed door; with or without ash pan; handsome nickel trimmings; a marvel for economy; the champion of wood heaters; guaranteed air-tight.

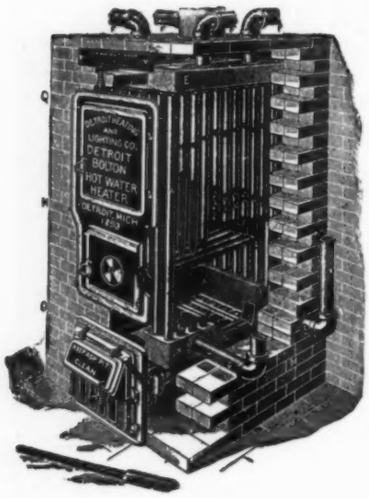
CHICAGO STOVE WORKS

STOVE MAKERS TO THE TRADE

Blue Island Ave. and 22nd St., Chicago

Manufactured by GOLD COIN STOVE CO., Troy, N. Y.

All Broken Up!



THE entire volume of water entering the base of the BOLTON HOT WATER HEATER is ALL BROKEN UP or separated into small one-inch water columns in its course upward, so that each will be brought in that direct contact with the fire that the heat can play all around it. This superiority of construction peculiar to this popular heater makes the Bolton Hot Water Heater a great fuel saver and an eminently satisfactory heater, giving an even temperature.

WRITE FOR CATALOGUE

Detroit Heating & Lighting Co.

DETROIT, MICHIGAN

"A few plain words best express the truth."

Moses told the Story of the Creation in less than 700 words (count them).

The Monarch Cinderella

Is a high grade base burner.
Is a circulator or double heater.
Is fitted air tight—has brilliant nickel.
Has five flues—three for radiation and two for circulation.
Has Ransom Duplex grate and "wear resisting" firepot.
Nickel Parts—Grate and Firepot removed without the use of tools.

WE ALSO MAKE

The Empress and the Imperial Cinderella Base Burners

Same construction, same sizes, same fitting.
Less Nickel—therefore less price. All are cheap.
We make and sell more high grade parlor stoves than any other Pennsylvania Foundry.
The QUALITY is the cause of the QUANTITY.

The Pittsburgh Stove and Range Co.

PITTSBURGH, PENNSYLVANIA

Western Agency:—W. D. SAGER : : : : : 38-40 Michigan St., Chicago, Ill.

10-OZ. CAN

Peerless Iron Enamel

FINEST AIR-DRYING ENAMEL ON THE MARKET.

WE GUARANTEE IT TO BE **THE BEST MADE.**

Put up in 10-oz., 1 pt., 1 qt., ½ gal., and 1 gal. cans.
Especially adapted for use on

Stove Pipes, Steel Ranges, Gas and Gasoline Stoves, Grates, Registers and Fenders, Etc.

10-Oz. Size, with Brushes, $1.50 per Dozen — Order from Your Jobber.

NICKEL PLATE STOVE POLISH CO., Manufacturers, CHICAGO

There's Only One

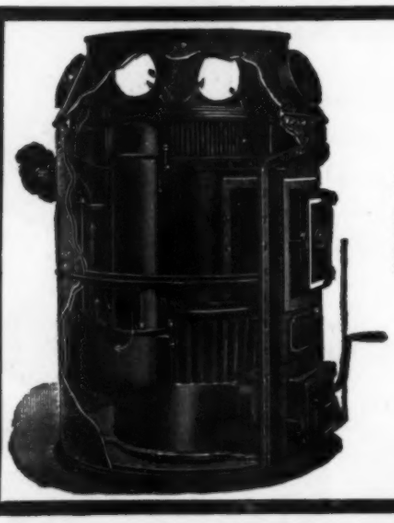
steel range a dealer can handle on which he can make an argument both as regards PRICE and QUALITY that is the

WILLARD STEEL RANGE

This range sells on its merits at a price that places it within the reach of all.

Wm. G. Willard, Mfr.

619-621 N. Fourth St., ST. LOUIS, MO.



Do not

you like the way these furnaces are built as shown by the cuts? The construction is substantial and they will last. The *FLORAL CITY* is a furnace on which a dealer can gain a reputation.

Monroe
Foundry & Furnace
Company
MONROE, MICHIGAN

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogue.
MILWAUKEE, WIS.

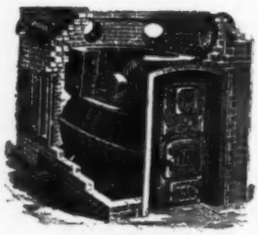
L. B. HOOKER, Sturgis, Mich., writes:

"Your paper is a grand success. I believe no tinner or plumber should do without it. I try to keep up with the times and the only way is to find out what other shops are doing, and the way to do that is to take The American Artisan."

Largest Variety. Latest Improvements. Lowest Prices.

Most Reliable and Economical

Heating Apparatus

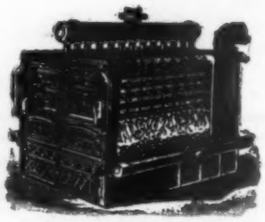


Wood Furnace.

Furnaces,

Hot Water and Combination

Steam Heaters

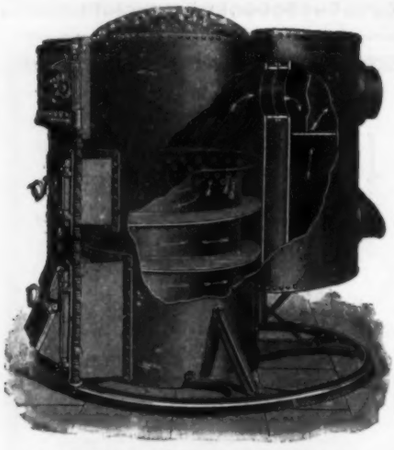


Hot Water Heater.

A Postal Card will bring to you full descriptive Catalogs, Price Lists and Discounts.

BOYNTON FURNACE CO.

147-149 Lake St., CHICAGO. 207-209 Water St., NEW YORK.



Weir Gas and Soot Consuming Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING Furnace

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

MANUFACTURED BY

Meyer Furnace Co.

SEND FOR CATALOGUE. PEORIA, ILL.

Is Absolutely Safe

Handy Pipe.

EMPEROR FURNACES

For Wood

SIMPLE SAFE DURABLE

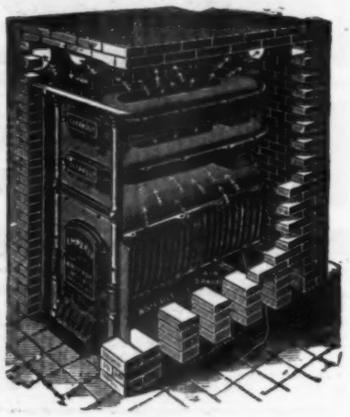
The Best and Cheapest Line of Wood Furnaces

FURNISHED FOR EITHER BRICK OR GALVANIZED IRON CASING.

Send for Catalogue.

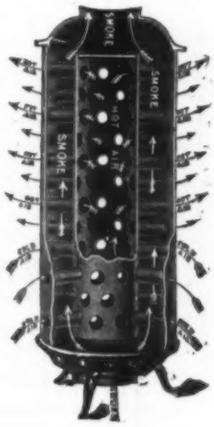
Bergstrom Bros. Co.

NEENAH, WIS.



I can hold my hand over my chimney. No waste heat. I use a Rochester Radiator and save half the fuel.

The greatest leak in household economy is the loss of heat up the chimney. This was supposed to be unavoidable until the **Rochester Radiator** was invented; now it is cheaply and thoroughly controlled by the many cross tubes. Dealers find an ever growing trade. Why not put in a stock and get up a boom in your town?



4.866 sq. ins.

Rochester Radiator Co.

100 Furnace Street, ROCHESTER, N. Y.

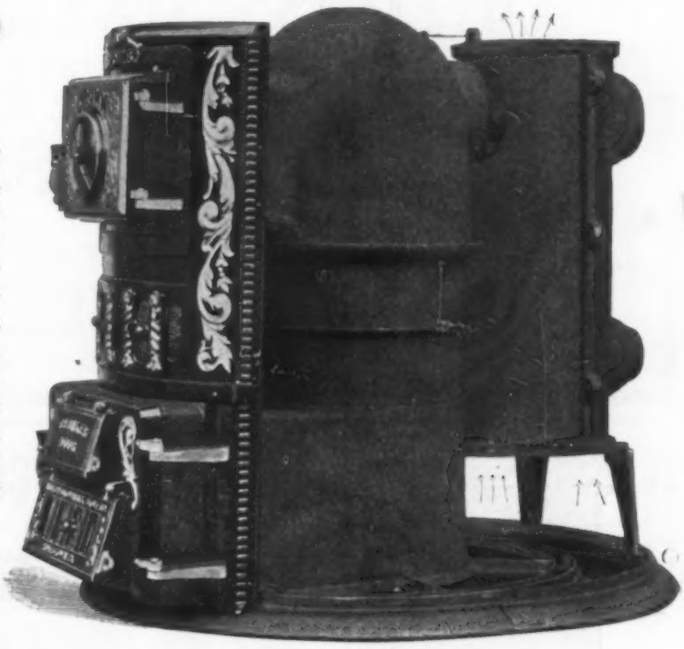
WANTED--ONE THOUSAND WARM AIR FURNACE AGENCIES FOR 1903

WE respectfully request not only one thousand dealers but all dealers in warm air furnaces to write us for our special furnace catalogue No. 54. It contains much new and valuable information regarding the construction, installment and management of warm air furnaces. It is valuable. We wish every warm air furnace dealer to have a copy. This furnace heats at long distance. It burns hard or soft coal or coke, and is made in all sizes. It has many points of superiority over all others, hence it is an easy seller.

Write us,

THE MARCH-BROWNBACK STOVE COMPANY,

Makers of All Types of Warm Air Furnaces. **Pottstown, Pa.**



The Crown Low Down Warm Air Furnace.

PUT THE RELIABLE

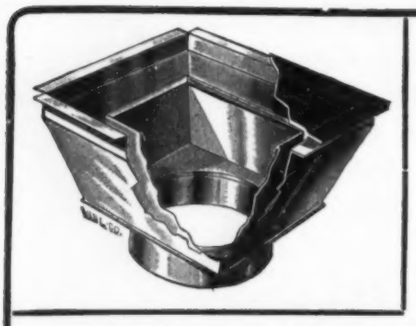
STANDARD INDICATOR

IN YOUR

Range Doors

The Thermometer in Range Doors is called for by all people. It is useful and accurate.

HELIOS-UPTON CO., Peabody, Mass.



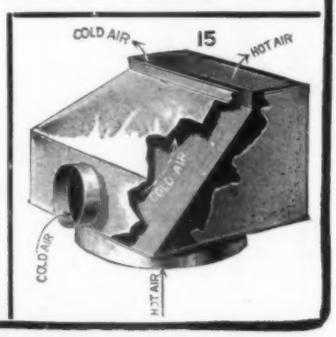
ONE FACT outweighs a thousand claims. IT IS A FACT we manufacture

THE BEST HOT AIR PIPE

on the market and ANOTHER that our prices are as low as any competing line.

IT IS A FACT we have many imitators, which is sure proof of the value of our pipes.

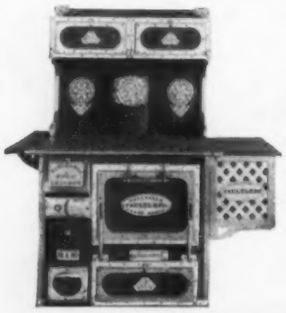
WE HAVE MORE FACTS in our Descriptive Catalogue, and will be glad to mail you one. Address,



SAFETY FURNACE PIPE COMPANY

11 E. Atwater Street, - - - DETROIT, MICH.

FAULTLESS MALLEABLE IRON AND STEEL RANGE



FAULTLESS STEEL COOK

Has pouch feed, end draft, wood and coal indicator, attachable reservoir. For durability, elegance and economy has no equal.

FAULTLESS MFG. CO.

617-621 AUSTIN AVENUE, CHICAGO, U. S. A.

For Wood and Coal.

FOR WOOD OR COAL

THE

MUELLER

Large Door Furnace is a DANDY

WE MAKE ALL STYLES OF HEATERS—
FOR ALL KINDS OF FUEL.

Write for Catalogue and Prices.

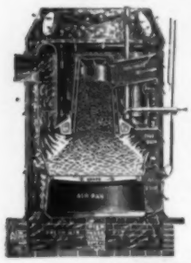
Everything in the Heating Line.

Established 1857.

For Long Wood.

L. J. MUELLER FURNACE CO.

191 REED STREET, MILWAUKEE, WIS.



Bust the Coal Trust

Why pay from $8 to $10 per ton for Hard Coal to heat your Homes?

The Bryce Self-Feeding Furnace

Will give **better** results with less trouble on coal costing from $2 to $3 per ton.

Write for Catalogue to

THE BRYCE HEATING AND VENTILATING CO., TOLEDO, OHIO.

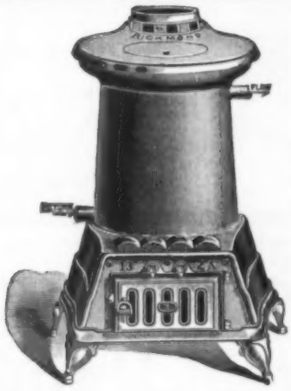
O-RIB-O WARE.

O-RIB-O
Galvanized
Pail.

O-RIB-O
KING.

O-RIB-O
Galvanized
Tub.

THE PRESENT SENSATION IN THE METAL WARE TRADE.
Write direct to manufacturers. Patented and made solely by
BRISCOE MFG. CO., (THE O-RIB-O PEOPLE) **DETROIT, MICH.**



RICHMOND

Tank Heaters & Laundry Stoves

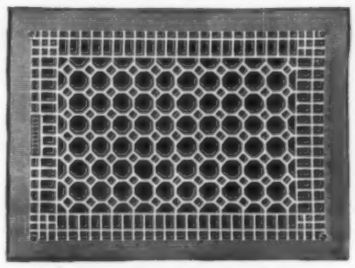
None Better Made

BUY one
and TRY one

Send for our 1902 Catalogue and PRICES ALSO

THE RICHMOND CO., Norwich, Conn.

New York — 738 Park Row Bldg.
Philadelphia — 18-24 So. 7th Street.
Pittsburg — 210 Ferguson Bldg
Chicago — Chicago Heater & Supply Co.
St. Louis — Rumsey & Sikemeier

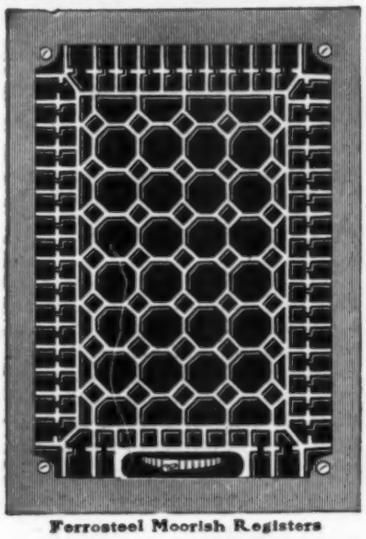


WE MAKE RIGHT PRICES
AND PROMPT SHIPMENTS

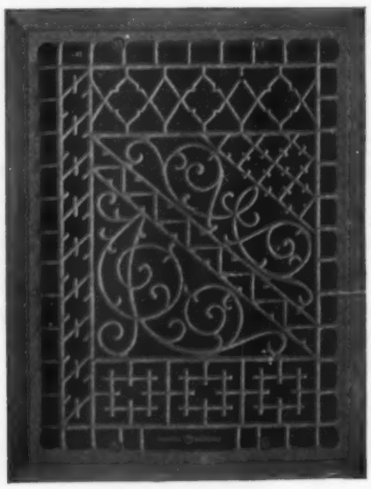
All Sizes — All Styles of Finish
Quality and Finish Unexcelled

HENRY & SCHEIBLE CO.
6-8-10 Long Street
CLEVELAND, O.

FERROSTEEL CO., CLEVELAND, OHIO



Ferrosteel Moorish Registers



Ferrosteel New Convex

STANDARDS OF COMPARISON

All Sizes and Finishes. Immediate Shipment. Easiest Terms. Lowest Prices.

FERROSTEEL CO., CLEVELAND, OHIO

BURTON'S
Fuel Economizer

Attached to a stove pipe saves more fuel and radiates more heat than any other stove pipe attachment.

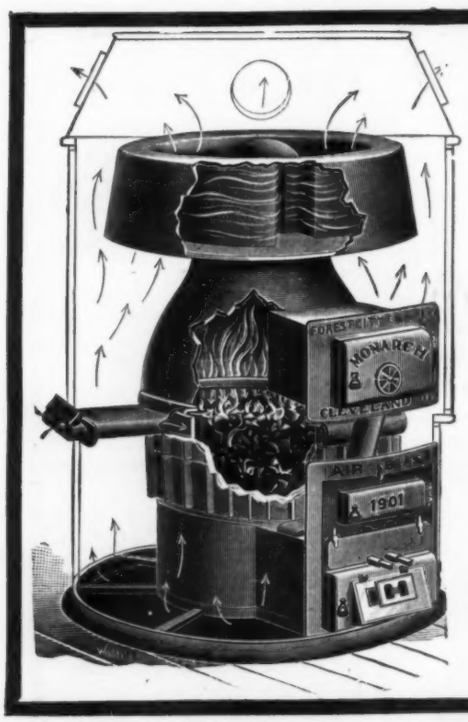
AN EARY SELLER.

Assertions Backed by Guarantee.

W. J. BURTON & CO.,
DETROIT, MICH.

"It is true that advertising will not put merit into poor merchandise, but good merchandise often becomes poor for the want of good advertising."

—Some Essential Oils for Advertising.



The Careful Buyer

Will appreciate the many meritorious features incorporated in the

Monarch Air-Blast Furnace

FOR SOFT COAL. In this furnace the gases are ignited and the coal is coked, affording economy and cleanliness.

SEND FOR CATALOGUE

THE FOREST CITY F'DRY. & MFG. CO.
CLEVELAND, O.

COMMON SENSE Circulator and Radiator

This heater is so simple in construction that any person who has any knowledge of the principles of heating can readily see the natural advantages it has over others. It does not obstruct the draft. It is easily cleaned out or repaired when necessary. It produces a circulation unequaled by any other article of the kind. It sells itself to all who understand that the true principle of heating is by circulation and not by radiation. It takes the place of a joint of pipe. The 6-in. is 10½-in. in diameter and the 7-in is 12½-in. It has no equal as a practical fuel-saving device and the price so small that no person can afford to use a stove or furnace without one.

Send for particulars.

A. C. SELLECK.
755-757 W. Madison St., CHICAGO, ILL.

Champion & Marquart Steel Ranges

possess every feature of genuine merit known to modern steel range construction and have one feature found in no other range on the market in the shape of an additional flue, which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

CHAMPION STEEL RANGE CO.
CLEVELAND, - OHIO

Established 1874.

The largest and most reliable **Foundry Supply House** in the world.

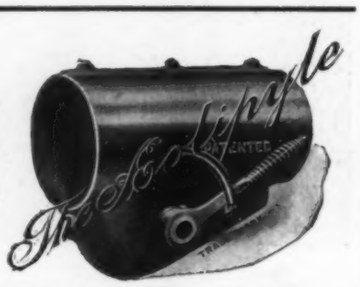
THE
S. Obermayer Co.,
CINCINNATI, OHIO,
CHICAGO, ILL.
manufacturers
"Everything You Need in Your Foundry."
Importers and refiners
PLUMBAGO GRAPHITE.
Catalog Sent on Application.

Applied to Smoke Collar of any Stove or Heater

Saves 25% in Coal

Increases heat. Keeps even temperature night and day. Prevents escape of coal gas. Pays for itself every winter.

Write For Illustrated Pamphlet.
Liberal Discount to the Trade.



THE ÆOLIPYLE CO.,
237 WATER ST., NEW YORK.

The Sheet Metal Workers' Assistant.

For Zinc, Sheet Iron, Copper and Tinplate Workers, etc., containing a selection of Geometrical Problems; also, Practical and Simple Rules for describing the various patterns required in the different branches of the above trades. By Reuben H. Warn. Illustrated by 32 plates and 37 wood engravings. $3.00.

For Sale by

DANIEL STERN,
69 Dearborn Street
CHICAGO.

There's a Big Difference

Yes—the biggest kind of difference between different books on business.

THE MANUAL OF BUSINESS is a sound, practical work. The following testimonials show how it is regarded by practical business men and leading technical editors.

USEFUL TO BUSINESS MEN GENERALLY.

The Engineering Review for September, 1902, says:
" 'The Manual of Business,' by Sidney P. Johnston, is a collection of correct business forms for executing commercial instruments, also commercial data and advice on the thousand and one questions of correct methods that are constantly arising in every day business life. The book contains 240 pages, 19 chapters and a classified index, and will be found useful to business men generally, and especially so to the young business man.

DATA HAS BEEN GATHERED WITH JUDGMENT.

The Iron Trade Review of Oct. 2, says:
useful addition has been made in the new work compiled by Sidney P. Johnston, entitled the Manual of Business. The book, which contains 263 5x7½ pages, is de-
"To the series of AMERICAN ARTISAN Manuals a very signed to be a ready reference work for the desk of the man requiring a guide to the numerous forms employed in business and correspondence. A considerable portion of the work contains purely elementary information, but the compiler has gathered the data with evident judgment and his comments are as a rule of a most useful character and scope. Particularly does this refer to the chapters entitled 'Debts and Collections,' 'Banking,' 'Commercial Papers,' 'Contracts,' 'Notes,' 'Property, Real and Personal.' The work is well bound in red cloth."

CONTAINS MUCH INFORMATION FOR CANADIANS

The Canadian Engineer of Oct. 4 says:
"A new book in THE AMERICAN ARTISAN series has been issued under the title of 'Manual of Business.' It is intended as a handbook for business men, and the abstracts of laws, etc., relate primarily to the United States, but there is a great deal that will apply to Canada, among which are tables of measurements, etc. It is published by David Stern, 69 Dearborn street, Chicago."

REFERENCE BOOK FOR MERCHANTS.

The Presto acknowledges the receipt of a copy of "The Manual of Business," a well-bound and conveniently arranged book whose subject matter comprises a collection of business forms for executing the various commercial instruments, together with commercial data and advice on many questions of correct methods that are constantly arising in every day business life. It has been compiled from various sources by Sidney P. Johnston and is published by Daniel Stern, 69 Dearborn street, Chicago.

A COLLECTION OF BUSINESS FORMS.

The Railroad Gazette, New York, says: "The Manual of Business belongs to THE AMERICAN ARTISAN Manuals, brought out by THE AMERICAN ARTISAN, Chicago, and is a collection of business forms for executing all commercial instruments, and of commercial data, and contains advice on questions constantly arising in every day business life."

EVERY BUSINESS MAN SHOULD HAVE ONE.

C. A. Peck, Berlin, Wis., writes: "I have a copy of your latest issue. So far as I have been able to examine it I have no hesitation in saying that it seems to me to be a book every business man should have upon his desk. I have found many, many times a need of some blank or form that caused me long search and trouble that seems to be laid down very plainly in this little work."

WILL BE OF GREAT VALUE AS A BOOK OF REFERENCE.

G. R. Lott, 1002 W. Lake street, Chicago, writes: " 'The Manual of Business' has been received. As a book of reference it will be of great value. It contains many good things for retail merchants, especially retail hardware merchants, and will become popular beyond a doubt as soon as it is placed on the market."

WILL BE OF SERVICE TO ANY BUSINESS MAN.

The Black Diamond, Chicago, of Sept. 27, says:
"THE AMERICAN ARTISAN, a Chicago publication at 69 Dearborn street, has recently published a valuable book for business men under the title of 'The Manual of Business.' This book is intended to be a ready reference work in regard to the many forms of business usage and correspondence and to post its readers on these points. It will be of service to any business man and will be of decided benefit to the young man in business."

IS EXCEEDINGLY VALUABLE.

The St. Paul Trade of Oct. 4 says:
"Daniel Stern, a Chicago publisher, has brought out an interesting little volume by Sidney P. Johnston, under the title 'A Manual of Business,' the volume belonging to THE AMERICAN ARTISAN series. Its contents include concise information concerning business forms, and a thousand odds and ends of information on correct methods that are of value as bearing upon questions constantly arising on every business day.
"The volume is of a character such as to make it exceedingly valuable to every one who has charge of a modern business venture. It is very complete authority on many questions that are not covered by the ordinary reference books and forms a handy dictionary which should be on the desk of every merchant. The author himself has evidently had extensive business experience, and has prepared a book containing very little superfluous matter."

WILL MAKE A PLEASING ADDITION TO ANY LIBRARY.

The Beet Sugar Gazette, Chicago, writes: " 'The Manual of Business' is intended to be a reference book for the many forms of business usage and correspondence which enable a man to carry on his business in accordance with the current commercial customs. The following table of contents shows the wide field covered by the author: Penmanship and Commercial Correspondence, Bookkeeping, Debts and Collections, Banking, Commercial Papers, Contracts, Notes, Patents, Measurements, Public Roads, Postal Regulations, Discount and Interest, Property, Real and Personal, Transportation, Rights of Parents, Parliamentary Rules and Forms of Resolutions, Dictionary of Business Terms, Business Abbreviations, Business Maxims. The book is well printed and bound and will make a pleasing addition to any library."

AN EXCEEDINGLY HANDY BOOK.

The American Miller of Oct. 4, says:
"Daniel Stern, publisher of THE AMERICAN ARTISAN, 69 Dearborn street, Chicago, has added another to his admirable list of 'American Artisan Manuals,' the last title being 'The Manual of Business.' The title is descriptive, the work being a handbook of correct forms for executing all commercial instruments and of data and advice on innumerable questions arising in commercial life. The contents include chapters on correspondence, bookkeeping, debts and collections, banking, contracts and other commercial instruments, patents, measurments, interest and discounts, laws of real and personal property, dictionaries of business terms and business observations, maxims, etc., all making a volume of 264 pages, bound in red cloth, with stiff board sides. It is an exceedingly handy book, as well as a timely one, and is made still more valuable by an ample index."

A COLLECTION OF CORRECT BUSINESS FORMS.

Domestic Engineering, of Oct. 25, says:
" 'The Manual of Business' is a book of 263 pages, containing a collection of correct business forms for executing all commercial instruments, commercial data and advice on the thousand and one questions of correct methods that are constantly arising in every-day business life. It is compiled from various sources by Sidney P. Johnston and published by Daniel Stern, of 69 Dearborn street, Chicago. This work is intended as a reference book for retail merchants, and we believe with the compiler that it will prove 'a ready reference work in regard to the many forms of business usage and correspondence whose employment identifies the man posted in commercial methods and commands an attention and recognition that the incorrectly worded commercial instrument is rarely accorded.'
"This work will also prove invaluable to the young business man, acquainting him with the forms in vogue in commercial life and increasing his commercial worth as he masters its points."

A MEANS OF SAVING MUCH TIME.

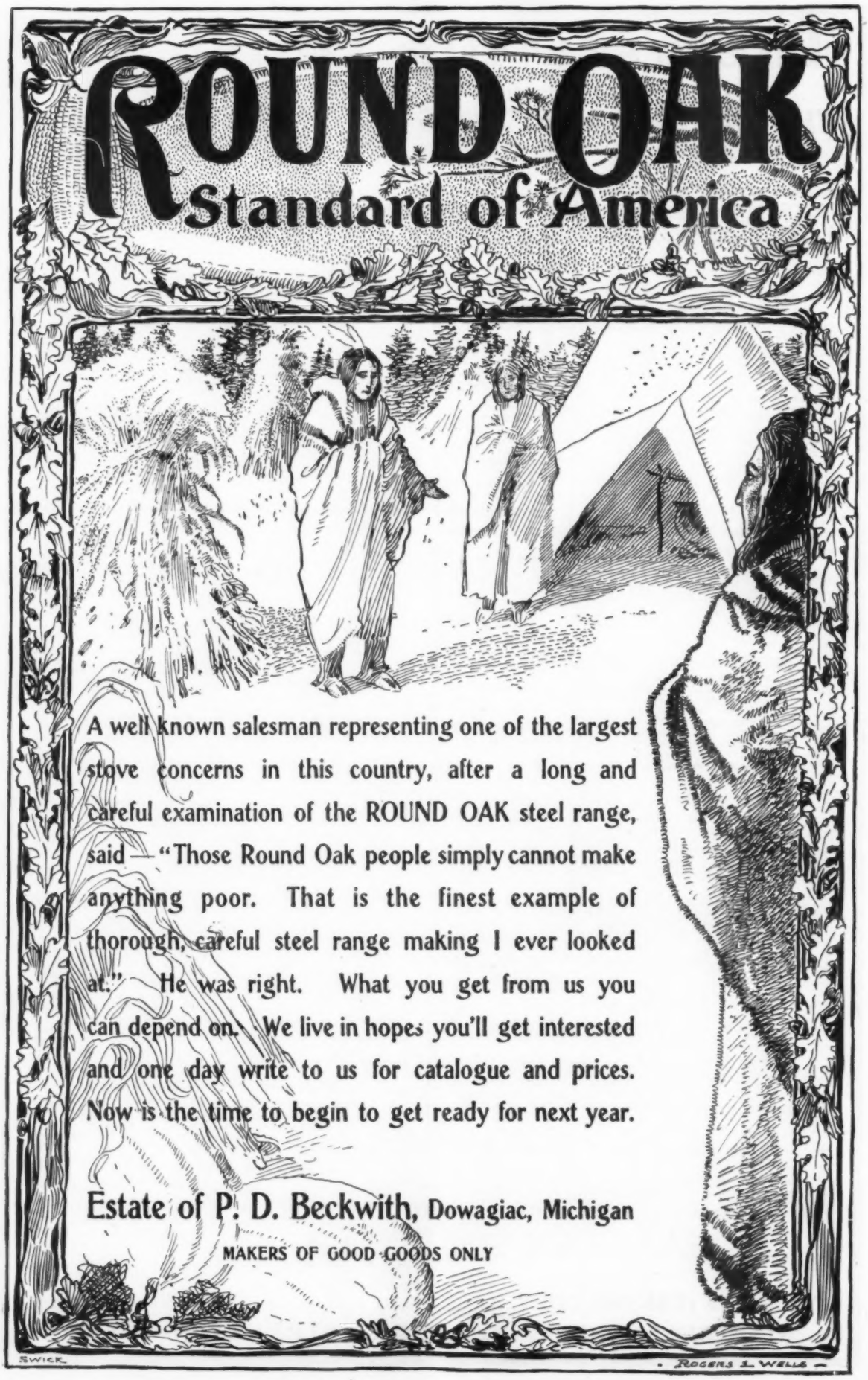
A. J. Scott, Marine City, Mich., writes: "I think the 'Manual of Business' is a very complete work, and far ahead of anything ever seen of a similar nature. Everything is stated in a very clear and concise manner, and makes the best kind of a book for ready reference. This work should be in the hands of every business man, as being familiar with business forms and laws, it is the means of saving much time, and many dollars."

A CONDENSED REFERENCE BOOK.

M. S. Matthews, Minneapolis, Minn., secretary of the Minnesota Retail Hardware Dealers' Association, writes Nov. 4: "I have examined the 'Business Manual' and find that it is, for an active business man, a condensed and extremely valuable reference book."

THE PRICE IS $3.50 A COPY. FOR SALE BY BOOKSELLERS EVERYWHERE, OR

DANIEL STERN, 69 DEARBORN STREET, CHICAGO.


ROUND OAK
Standard of America
A well known salesman representing one of the largest stove concerns in this country, after a long and careful examination of the ROUND OAK steel range, said—"Those Round Oak people simply cannot make anything poor. That is the finest example of thorough, careful steel range making I ever looked at." He was right. What you get from us you can depend on. We live in hopes you'll get interested and one day write to us for catalogue and prices. Now is the time to begin to get ready for next year.
Estate of P. D. Beckwith, Dowagiac, Michigan
MAKERS OF GOOD GOODS ONLY
SWICK
ROGERS & WELLS

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

Terms of Subscription in the United States, their Possessions, and Canada, (invariably in advance): One Year, Postage Paid, $2.00.
In Foreign Countries, Except Canada, One Year, Postage Paid, $4.00.

Address all Letters, communications and remittances to

DANIEL STERN, Publisher and Proprietor,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
This Paper is a Member of the Chicago Trade Press Association.

CHICAGO, NOVEMBER 29, 1902.

THE Canadian Bankers' Association held their meeting in Toronto last week and from the address of President Clouston, we learn that the assets of Canadian banks now amount to $610,928,000. A decade ago they were only $291,600,000 and last year they were $553,900,000. This year was a very profitable one for the Canadian bankers, as their surplus earnings raised from $36,903,000 to $41,130,000.

BARON TAUCHNITZ, the noted German publisher, has made an interesting confession which has proven something of a shock to the popular idea that publishers make enormous profits. In regard to the circulation of his books, he said that "he considered the sale of 3,000 copies as fair and 5,000 as very good," while he states that a circulation of 10,000 has been obtained in only 6 cases out of 8,000 in the last 10 years.

A recent article in a British journal says: "The United States, like an enchanted garden, has brought forth from a marvellously productive soil, splendid results of human ingenuity. Yet the thing that causes most wonder is that the concentrated intelligence which, intending to replace human factors by machinery, has, in working towards its aim, been giving to constantly growing numbers of workmen an opportunity to support themselves and become productive factors."

THE growth of American trade with China and the increasing popularity of American goods in that country are shown by two official statements which have just reached the Treasury Bureau of Statistics. One of these is the report of the foreign commerce of China in the year 1901, by customs districts, which contains the detailed reports of the customs officials of each district, as well as a summarization of the total commerce of the year; while the other consists of some extracts from the report of the British commercial attache in China, Mr. J. W. Jamieson. The general report on the commerce of China for the year 1901 shows that the imports from the United States have grown from 5,093,182 haikwan taels in 1895 to 23,529,606 in 1901; while those from Great Britain grew from 33,960,060 taels in 1895 to 41,223,538 taels in 1901, those from Russia from 1,791,658 taels in 1895 to 3,015,756 taels in 1901, and those from the continent of Europe, Russia excepted, from 7,552,099 taels in 1895 to 17,046,453 taels in 1901, showing a much more rapid gain proportionately in imports from the United States than from the United Kingdom or other countries of Europe.

AMERICAN manufacturers are pretty familiar with the bonus system. This is a plan whereby ambitious cities off the main line of travel where leading citizens have spare cash, united with a spirit of optimism and an astute perception of the main chance, induce manufacturing industries to come in and inflate the value of real estate lying around loose, and as a general thing controlled by the town syndicate. As a rule industries so secured are purely ornamental. Their purpose has been served when the title to the last lot has passed to the hopeful purchaser at a figure several hundred per cent in advance of its real value. In most cases such works have experiences full of vicissitudes. In some instances they never turn a wheel and after a few years stand as dismantled ruins, a monument to the folly of the projectors who were foolish enough to believe that industries founded upon such a chimerical foundation as a real estate boom could prove successful when the temporary, unhealthy stimulus which had called them into being had passed away. We do not mean to say that this has been the experience in every case. In fact we are well aware that there are exceptional instances on record where citizens of cities which are particularly well situated as regards railroad facilities, raw material and other advantages have joined hands and by pooling their issues have secured manufacturing plants from less favorably situated localities which have proven successful and have assisted wonderfully in building up cities.

RETAIL hardware dealers who have discussed the question of rural free delivery at various state meetings of the trade have been divided on the question as to whether this scheme was a benefit or a detriment to the country hardware trade. It has temporarily been of benefit to the retail hardware dealers, as it opened up to them a market for a large sale of rural mail boxes. However, when one reflects that as a result of the extensions of the service last year 1,906 postoffices were discontinued, effecting a saving in the salaries of postmasters aggregated at $116,807, it would seem that this system was dealing a heavy blow at the isolated general merchandise stores, as a part of their income has been derived from the operation of a postoffice on the side. The postoffice is a factor in community life, forming a centripetal force which draws from rural areas and creates the nucleus of many a town.

It affords in many instances the only excuse the farmer can offer for driving to town, although the necessity for an accessible trading center is also an

important factor in building up an urban settlement. That which took the farmer to town once a week or less often is now delivered every day at his door. His contact with the world of industrial and intellectual activity is more intimate and direct. A portion of the inducement for going to an urban center is withdrawn, and ultimately the tendency to migrate from the farm to the town permanently may possibly be checked.

THE mantle of Harney Peak, S. D., and Temescal, Cal.; Booze-Fighter Gulch, Ariz., and Microbe Canyon, Ore.; Cactus Junction, N. M., and Grizzly Bear Hollow, Idaho, has fallen on Cape Nome, Alaska. The great American tin mine story has been resurrected with this latest Mecca of the gold seekers as its location. Already our needs in the line of tin are being supplied in the fecund imaginations of the promoters. As one paper says, "No longer will the report of the geological survey in its report on American resources read "Tin None." There is tin in American soil—abundance of tin—enough to supply the entire needs of the nation, it is said, with plenty to spare. From far-away Cape Nome comes this cheering information; from Alaska, the land for which Uncle Sam paid to Russia the paltry sum of $7,000,000 and which has proven the greatest bargain in history. Near Cape Nome has been discovered a tin ledge that promises to make America one of the greatest tin-producing countries in the world. One thousand pounds of the tin are soon to be brought to New York and Chicago as a sample. It is 80 per cent pure and is so deep and bountiful in quantity that it can be most profitably worked.

"Since 1898 the geological survey has reported 'no tin.' Before that time the output was insignificant, although large sums were spent in an effort to get the metal from the Black Hills. It was too shallow there to be profitably worked, however, and the machinery that was set up has gone to rust and the mining stock is waste paper.

"A. H. Craig of Mukwonago, Wis., says: 'You would scarcely believe me if I should give a true statement of the tin discoveries in that far-away region. I have known of the existence of tin in Alaska for more than a year, but not until recently was the quantity determined. It is only a question of a little time when this tin will be mined in sufficient quantities to supply all our needs and we shall be independent of any other country.'"

There is no question but that tin and lead, gold and silver, iron and copper, mica and asbestos can be mined in almost any state in the country, but the fact that there is iron let us say in a certain locality does not mean that a new Mesabi range has sprung into existence or that a new Pittsburgh or Birmingham will spring to line in the vicinity. Iron mines from which one can dig real iron are as thick as earthworms after a shower, but not one mine in a hundred can be profitably worked. Aye, there's the rub. The mine that has a future is one whose output will recompense its owners for all outlays, and while there may be enough tin in and around Alaska "to supply all our needs," still the Straits settlements have no immediate call for sending their clothes nor is Banca liable to relapse into aboriginal quietude and decay.

The Stock Market.

THE condition of the money and stock markets continues to furnish a subject for intellectual speculation, a speculation which to some extent may be said to be taking the place of the speculation which ordinarily brings both the money and stock markets into their greatest prominence. As the recognized barometer of the general trade of the country, the stock market is watched with an intensity due to many reasons besides the gains which certain individuals may make in the rise or fall of the securities dealt in at that mart. If the stock market by its general advances or recessions indicates what the business of the country is to be in the future, then the manufacturer, the merchant and even the farmer are quite justified in studying the chart of stock market quotations for the purpose of seeing whether the general trend of things is upward or downward. Such a study—assuming that this foreshadowing can be counted upon—is nothing more than an indication of business prudence.

It is true that there is a general disposition on the part of those who take optimistic views of the situation to take from the stock market this characteristic quality. One is quite apt to hear the statement made that business prosperity is still on the increase, and that the recent decline in stock market prices must be simply a temporary fluctuation, because the railroads are crowded with freight, the manufacturers are almost snowed under with orders, and from one end of the country to the other there is every evidence of the most intense business activity. But the time to consult the barometer is not usually after the storm has made itself evident by the ordinary positive indications of its existence. The value of a barometer is in the foreshadowing it gives that an atmospheric depression is approaching, when to the eye there are no outward indications of it. The sun may be shining brightly, the breeze may be but the light air of a summer zephyr; but a rapid fall of the barometer may indicate that these outward manifestations are deceptive and that in a short time more these fair conditions will give place to conditions wholly the reverse.

It is, however, difficult in judging of variations in stock market quotations to say whether a decline indicates the coming on of a general trade depression or whether it is merely one of those episodes which characterize variation in intensity even in advancing forces. It is clear that our financial condition is in certain ways of a highly satisfactory character. It is questionable whether ever before in the history of this country so large a proportion of our people, particularly those engaged in agricultural pursuits, have been so comfortably situated. As the result of a succession of good harvests, with reasonable market prices, mortgages have been paid off, debts of various kinds cancelled, and in an enormous number of individual instances a surplus has been put aside to meet the possible hard times of the future. For this reason the causes which in past financial crises have brought suffering to a great many people—that is, the pressure upon them of debts—is not likely to form as serious a

factor in any future change in business conditions. Each financial crisis that has come upon this country during the last two or three generations has had causes that were peculiarly its own, and for this reason we are not in a position to judge as closely as we otherwise might be of whether the conditions that now present themselves are those which will lead to untoward results or are merely temporary in their nature.

It is, however, well to take into account that even in stock market matters the public has a greater interest than would appear probable by a great deal that is written concerning stock market conditions. Apart from the general business depression which a great collapse in the stock market would indicate as probable, there is a more general participation in current speculation by the business community than is commonly admitted by financial writers. The statement has been frequently made of late that the public is no longer in the market; that it is now simply a question of great capitalists; but we fancy the truth is that the public which takes part in stock operations is quite as much in the market now as it has been at any time. Its cessation in activity consists in not making further purchases of stocks either on margins or otherwise. It is intimated that one reason for this is that the public is nearly up to its neck in stocks which have been purchased at prices probably quite as high as those that now prevail, and perhaps higher, and that it—the public—has all that it cares to do to supply the margins needed to make good declines in market prices.

The companies, old, new and reorganized, whose securities are dealt in in the stock market, represent an enormous quantity of shares, and it is quite improbable that the greater part of these have been purchased outright and locked up in the safes of Messrs. Rockefeller, Morgan, Vanderbilt, Astor and other leading capitalists. On the contrary, there are not a few indications to sustain the belief that these shares have been dealt out from time to time to all classes of purchasers and speculators, and that these shares in a great many instances are now carried by those who have acquired them under conditions which to quite a degree constitute a surfeit of holdings. In other words, if the market seems stagnant, it may be that the absorptive power of the community has been pretty well exhausted, though, if this is the case, it unquestionably rests rather with the great capitalists than with the investing or speculating public to sustain the market if a decline in prices once sets in. That great fortunes are not often made by a collapse in the stock market is due to the fact that it is rarely possible to predict such a reverse; hence, whether the clock of prosperity has struck twelve, thus showing that we are over the ridge and on the decline in industrial activity, is a subject upon which one cannot speak with absolute confidence. Thus far it would appear that, if we are to experience reverse conditions, the oncoming of the change is to be a gradual one, which is possibly the best way of meeting such a reverse if its approach cannot be postponed. It cannot be questioned that great interests are a substantial safety valve, and if we are to believe the words of upholders of consolidated capital the day of the panic is past.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

A. F. RAMHARTER, a hardware dealer of Clear Lake, S. D., has an interesting advertisement in a newspaper of that city in which he offers hard chestnut coal, f. o. b. Clear Lake, at actual cost, guaranteed not to cost over $11.50 a ton, which he will furnish to users and purchasers of the Radiant Home base burners, which line he handles. It looks to me that this offering coal at cost is an excellent way of pushing the sale of base burners, although it seems rather strange that no other retail hardware dealers except Mr. Ramharter should have adopted this idea.

* * *

A PRESS dispatch from Conshocken, Pa., under date of Nov. 12th, bears an eloquent and unique testimonial to the value of agate nickel steel ware, and must prove gratifying to the Lalance & Grosjean Mfg. Co., New York, who make this ware. This interesting item hailing from this keystone state city of wierd name is as follows:

"A battered agate-ware kettle is to-night the treasured keepsake by two Conshoshocken households, for it is looked upon as the instrument that saved two little girls from terrible injury or possible death under the wheels of a passing wagon.

"A little daughter of Thomas English, a Fayette street cigar dealer, started with the agate-ware kettle to a neighboring confectionery store for ice cream, and was joined by another child, the daughter of M. Rakosky. Crossing the street at the Hector street corner, the two children were run down and run over by the driver of a passing horse and wagon, and the wheels of the latter passed directly over both girls' postrate forms. But the agate-ware kettle, also under the wheels, was just big enough and strong enough to keep the wheels from falling on the children with crushing weight, and so it transpired that the little girls' mothers not only rushed to their rescue, but heartily agreed, when they learned that neither child was injured, and then looked upon the battered kettle, that the latter was a splendid life-saver."

* * *

THE trade have been considerably annoyed by the widespread circulation of a false rumor to the effect that stove prices were advanced 10 per cent at the recent meeting at the Auditorium Hotel. The Chicago Times-Herald and Iron and Steel in this city, as well as newspapers in Aurora, Ill.; Akron, Ohio; Indianapolis, Ind.; Louisville Ky.; Henderson, Ky., and other points, spread this rumor, which is apt to injure the trade with the public, as it would be natural for people seeing these items to imagine that stove prices have been advanced to a higher point than they really have, and in some cases to postpone purchasing on account of this mistaken impression.

* * *

FROM the Sault Sainte Marie Record of Nov. 13th I learn that a disastrous fire swept the town of McBrides, Mich., near that point, on Nov. 12th, and of all the stores in the village only two were left standing, a hardware store and a candy shop. It is very seldom that hardware stores have such good luck as this.

News Siftings.

It is said that the new Union Steel Co. will be a close corporation.

L. C. Hunt succeeds Arthur P. Prier as president of the National Brass Mfg. Co., Kansas City, Kans.

The men working in the tunnel at the foot of 15th St., Jersey City, N. J., have struck a vein of mica.

The Central City Foundry Co., Huntington, W. Va., will rebuild their plant which was burned last week at a loss of $15,000.

Aug. C. Waschone, G. F. B. Miller and A. F. Hamman are the incorporators of the Illinois Brass Foundry Co., Chicago, capitalized at $10,000.

It is denied that a consolidation of the Union Iron and Steel Co. and the Sharon Steel Co. was merely a preliminary step toward their merger with the United States Steel Corporation.

The directors of the Pine Mountain Mica & Asbestos Co. held a meeting at Indianapolis on Nov. 15th and decided to prepare the mica they now have stored in the warehouse for the market immediately.

Upon application of the Chrome Steel Works Co., New York city, the U. S. Circuit for Boston, Mass., on Nov. 18, appointed John R. Prescott of Newton, Mass., receiver for the Damon Safe and Iron Works of Cambridge, Mass.

The Baxter Stove Co., Mansfield, Ohio, have shut down their molding department for a few days on account of lack of pig iron. Shipments of this metal are on the way, but have been delayed on account of the congestion of traffic on certain railroads.

The Germer Stove Co., Erie, Pa., well known to the stove trade under its former title of Black & Germer, have been incorporated in Pennsylvania with a capital stock of $500,000 and have also been incorporated in Illinois under the laws of the latter state with a capitalization of $25,000.

The Matthews & Willard Mfg. Co., Waterbury, Conn., for whom E. A. Ireland, Auditorium building, Chicago, is sales agent, make a very finely finished, neat and strong line of wrought steel stove rings. They also offer the trade a very complete line of spun urns and stove trimmings.

The St. Louis Electrotype Foundry, 211 N. Third street, St. Louis, have a very desirable line of pattern letters in sizes of ⅛ to 2 inches. These come in Roman, round-face Gothic, sharp-face Gothic, hair-line Gothic, flattened-faced Gothic, antique pointed and reverse Roman for branding irons.

We gratefully acknowledge the receipt of an invitation to attend the sixth annual banquet of the Stove Salesmen's Association of Pennsylvania, which will be held at the Bourse, Philadelphia, at 8 p. m., Wednesday, Dec. 17, 1902. W. T. Hallowell, 111 N. Second street, Philadelphia, is secretary of the association.

When the book lover picks up the exquisite edition de luxe of the "Raven" issued by the Gobeille Pattern Works, Cleveland, O., the following quotation from this matchless, mysterious poem of Edgar Allen Poe will naturally come to his mind: "The raven still beguiling all my fancy into smiling." This dainty specimen of book craft is enough to beguile the fancy of any one who loves the artistic and to stir the pleasurable emotions. The wierd witcheries of the drawings, the incomparable typographic prettiness and the harmonious *tout ensemble* of the work deserve warmest congratulations.

The Home Pride Range Co., Marion, Ind., are manufacturers of the Home Pride malleable steel ranges. These are made of heavy material, and have a separate fire box reservoir and oven. They are made of No. 16 gauge blue and the same gauge black enameled with blue steel door linings. They also have right and left hand flush reservoir.

Schill Bros. Co., Crestline, Ohio, are having marked success in the sale of their new Schill steel range. This range is made in a variety of styles, with flush reservoir and high closet, with front or pouch feed, also draft door below pouch feed, which can be opened to light the fire. The reservoir casing is made of cast iron and the front of same is covered with sheet steel, thus giving it the appearance of a steel front. This saves labor in blacking. The right end of the reservoir casing is handsomely ornamented. It has swing balance oven door, ventilated oven, extra large ash pan and screw draft plate. It is very handsomely nickeled.

The Best Street Light Co., 217 E. Fifth street, Canton, Ohio, make a variety of popular lights. Their No. 94 Best indoor arc light has 600 candle power. It weighs 8 pounds, is 30 inches long and has a 5½-quart reservoir. This one-mantle air pressure arc light can be hung or set anywhere. It is made of the best material and is nicely finished in oxidized copper, highly polished. For indoor use this firm's No. 81 two-mantle air pressure arc lamp has many friends, as it is very steady and brilliant. It has a ventilator made of galvanized iron, oxidized, and a reservoir made of No. 18 gauge sheet brass. Their No. 82 is a powerful gasolene lamp with hinged globe and two standard size mantles. For outdoor use they offer the No. 95 one-mantle air pressure arc light, whose consumption of gasolene is two quarts in eight hours. This light is wind-proof, is made of the best material, is nicely finished and gives a 600 candle power. The burner is very simple.

The Comstock-Castle Stove Co., Quincy, Ill., manufacture a very complete line of steel ranges, steel cooks and heating stoves. This firm have brought out a new line of air tights for burning wood and coal. The Economy Hot Blast is a round air-tight for coal. It has a draw center grate, hot blast draft through upper register damper under feed door, broad and heavy cast iron gas ring above fire pot, full cast iron front, large opening for sheet iron ash pan, cast iron guard ring to guide ashes into ash pan, mica illumination in feed door, nickel-plated top ring, name plate, feed door plate, upper and lower registers, foot rails, feet, knobs and hinge pins. Their Prize Oak is the very latest form of Oak construction and is mounted with best planished oak body iron; it has a superb satin-finished urn, nickel steel ring, name plate, cam draft damper, latches, feet and base door, draft door, also massive and beautifully carved circular hanging nickel-plated foot rail. There is a check draft above the feed door.

SUNLIGHT BURNERS.

The accompanying cuts show some of the Sunlight burners manufactured by the Sunlight Lava Mfg. Co., Chattanooga, Tenn. These are correct in design, affording very slight chance for the lodgment of dust. They are perfectly aligned, giving a maximum candle power. They are properly proportioned, preventing carbonization and are clean cut, symmetrical and pleasing in appearance.

No. 22.

The accompanying cuts are shown on a mailing card sent out calling attention to these burners.

Each burner made by this company is inspected and tested during the various stages of its manufacture, and is only finally improved in the testing department of this concern when sure of giving complete satisfaction to the most critical. These burners are accurate to rated consumption and of uniform, steady, light-giving flame, without carbonization and with perfect combustion of gas. These burners are also superior in scientific design, having the mixture of gas and air carefully calculated. This firm make a specialty of bicycle lamp burners, rat tail burners, etc. Their American E. H. lava coal gas tips are largely handled by the hardware trade. They make from 15,000 to 20,000 of these burners daily—the largest output in the United States.

No. 33.

CINDERELLA STOVES AND RANGES.

The Pittsburgh Stove & Range Co., Pittsburgh, Pa., send us, a copy of their handsome catalogue, No. 44. This volume shows the Cinderella stoves and ranges. The Marion Cinderella steel range has duplex grate, flat or dump and shaking grate for coal, and wood grate of superior construction for wood. The nickeled parts include steel edge band wood door, shaker door, ash pit door, clean out door, oven door frame, handle, catch and supports, oven door panel, name plate and corner strips.

The Duchess Cinderella range for hard coal, soft coal or wood, is made of cast iron throughout, either right or left hand. It has balance oven door and nickeled top band. This range is furnished with triangular, revolving or duplex grates, as desired. These are removable without disturbing any other firebox fixtures. Other features are fire flint or cast iron linings, direct draft damper, cut long center, ringed cover and large drop end shelf. The ash pit is provided with ash grates to promote cleanliness and is supplied with an extra large ash pan. The nickel-plated parts include the frame of the oven door and handle, the large and beautifully designed oven door panel, panels on the feed and ash pit door, stands on the T-shelf towel rod top band, knobs and damper pull.

In the Monarch Empress and Imperial Cinderella base burners for hard coal the products of combustion are divided and pass down two flues, one at each rear corner of the stove, distributing the heat to the extreme corners. Thermal travel then proceeds along both sides of the bottom to the front, which causes an equal distribution over the entire bottom, making all the lower part of the stove a direct radiating surface. The heat then passes back through the center flue in the bottom and thence out through the large ascending flue to the smoke pipe. The hot-air flues are located between the descending and ascending flues, and are consequently heated by direct radiation from the side of both descending flues and both sides of the ascending flues. The cold air is taken from the floor, carried along the bottom under the base to the circulating flues and is delivered through the pipe collar at the top, from which point it may be conducted to the rooms above. The magazine can be readily removed and is provided with double covers, which prevent the escape of gas and protect the nickel work on the swing cover. The firepot is easily removed through the large front doors. The grate is of the improved duplex pattern, is extra heavy and has an outside shaking ring. It can be removed and replaced through the ash pit door. The nickel-plated parts include swing cover, magazine section, hearth plate, foot rails and base and legs. They are easily applied and removed.

This volume also shows the line of Cinderella gas ranges manufactured by this firm and calls attention to their line of hot-air furnaces, Columbian and Peerless grates and gas log fires. This firm will be pleased to send one of these catalogues to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

PEAT BRIQUETTES $1.50 A TON.

"Recognizing that a good and cheap substitute for anthracite coal would prove a great boon, and having learned that the efforts in Canada to produce dense fuel blocks from peat have within the last few months been brought to a successful issue, I have made careful inquiry and I find that practical experiments, continued for years, have resulted in the economical production of a salable peat fuel, highly satisfactory for domestic purposes," said United States Consul Gunsaulus in a report to the State Department from Toronto. The report further says: "Manufacturing operations on a commercial scale have been reported upon by engineers of high standing, and all agree that methods and appliances are now available whereby peat briquettes may be produced, ready for shipment, for a maximum manufacturing cost of $1.50 per ton and probably for considerably less in plants of large capacity."

G. W. Hoffman, 295 E. Washington street, Indianapolis, Ind., has worked up a large trade in the United States metal polish, which has proved very efficacious for polishing gold, silver, plated ware, nickel, tin, brass, copper, etc.

The Hardware Record.

American Hdw. Mnfs. Assn.

Pres., F. R. Plumb, Philadelphia.
Vice-Pres.—F. S. Kretsinger, Ft. Madison, Ia.; J. C. Birge, St. Louis; Geo. W. Corbin, New Britain, Conn.
S.-T., F. D. Mitchell, Pittsburg.
Ex. Com., Robert Garland, Pittsburg; Henry B. Lupton, Pittsburg; N. A. Gladding, Indianapolis; W. S. McKinney, Allegheny; F. L. Clark, Birmingham; O. W. Asbury, Philadelphia; G. N. Landers, New Britain; C. H. Holt, Cleveland.

Arkansas Retail Hdw. Dealers Assn.

Pres., John M. Pitman, Prescott.
1st V.-P., J. F. Maxey, Ozark.
2d V.-P., T. B. Stewart, Newport.
Sec., C. E. Taylor, Little Rock.
Ex. Com., H. Williams, Hot Springs; J. H. Bolcourt, Little Rock; E. E. Mitchell, Morrilton; W. M. Graham, Clarendon; R. F. Roys, Russellville.

Chicago Retail Hdw. Dealers' Assn.

Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Assn of Philadelphia.

Pres., William C. Peters.
V.-P., Thomas Devlin.
Sec.-Treas., T. James Fernley.
Directors, W. W. Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

Illinois Retail Hdw. Dealers' Assn.

Pres., H. G. Cormick, Centralia.
V.-P., D. Holder, Bloomington.
Sec., L. H. Clark, Rockford.
Treas., F. F. Porter, Chicago.
Ex. Com., H. G. Cormick, Centralia; D. Holder, Bloomington; L. H. Clark, Rockford; F. F. Porter, Chicago; Z. T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; R. G. Scheurer, Vandalia; F. W. Siecke, Freeport.

Indiana Retail Hdw. Dealers' Assn.

Pres., W. P. Levis, New Albany.
V.-P., Jas. L. Fulton, Portland.
Sec.-Treas., M. L. Corey, Argos.
Members Ex Com., L. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

Indian Territory Retail Hdw. Assn.

Pres., J. G. Smith, Canadian.
1st V.P., Fred Parkinson, Wagoner.
2d V.-P., E. C. Stretch, Vinita.

Iowa Retail Hdw. Dealers' Assn.

Pres., W. A. McIntire, Ottumwa.
V.-P., J. Seither, Keokuk.
Sec., W. H. Keating, Ottumwa.
Treas., Geo. Lister, Manchester.
Exec. Com., J. Seither, Keokuk; Clarence Philips, West Liberty; L. Lindenberg, Dubuque; T. J. Lomas, Cresco; C. F. Schmidt, Marshalltown; Homer Duncan, Albia; L. H. Kurtz, Des Moines; C. R. Keating, Mt. Ayr; Chas. Swaine, Council Bluffs; H. S. Vincent, Ft. Dodge; W. H. Millard, Cherokee.

Kansas Hardware Dealers' Assn.

Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neill, Osage City.

Kentucky Retail Hardware and Stove Dealers' Association.

Pres., W. T. Oldham, Mt. Sterling.
1st V.-P., J. L. Macin, Vine Grove.
2d V.-P., W. S. Shacklett, Fulton.
Sec., Paul Wagner, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.

Pres. T. Frank Ireland, Belding.
V. Pres., John Popp, Saginaw.
Sec., A. J. Scott, Marine City.
Treas., H. C. Weber, Detroit.
Ex-Com., J. B. Sperry, Port Huron; F. A. Turner, Caro; J. G. Patterson, Detroit; F. S. Carleton, Calumet; S. E. Hunt, Detroit; Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A. J. Scott, Marine City.

Minnesota Retail Hardware Assn.

Pres., W. H. Tomlinson, LeSueur.
V.-P., H. S. Cleveland, Minneapolis.
Treas., W. E. Barto, LongPrairie.
Sec., M. S. Matthews, Mnpls.
Exec. Com., W. H. Tomlinson, Le Sueur; H. S. Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; C. F. Ladner, St. Cloud; J. Schmidt, Wabasha; E. H. Loyhead, Fairibault; A. T. Stebbins, Rochester; J. McGuire, St. Paul.

Missouri Retail Stove and Hardware Dealers' Association.

Pres., Tayler Frier, Louisiana.
V.-P., Ed L. Wachter, St. Louis.
Sec., F. M. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrolton; F. A. Kannsteiner, St. Louis; Frank Mayer, Macon.

National Hardware Association.

Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., John Freeman, Detroit; Samuel B. Bigelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

Nebraska Retail Hdw. Dealers' Asn.

Pres., T. W. Morton, Omaha.
1st V.-P., C. K. Lawson, Hastings.
2d V.-P., W. T. Coleman, McCook.
3d V.-P., J. C. Cornell, Ord.
Sec.-Treas., Harry Hall, Lincoln.

National Retail Hdw. Dealers' Asn.

Pres., H. G. Cormick, Centralia, Ill.
V.-P., C. N. Barnes, Grand Forks.
Sec., M. L. Corey, Argos, Ind.
Treas., W. Bogardus, Mt. Vernon.
Exec. Com., W. P. Bogardus, Mt. Vernon, O.; O. P. Schlafer, Appleton, Wis.; C. F. Ladner, St. Cloud, Minn.; W. A. McIntire, Ottumwa, Ia.; S. E. Jones, Richmond, Ind.

N. Dakota Retail Hdw. Dealers' Asn.

Pres., H. N. Joy, Hamilton.
V.-P., H. F. Emery, Fargo.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Lakota.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; Anton Enger, Cooperstown; Frank Lish, Dickinson; H. F. Strehlow, Casselton; I. L. Newgard, Grafton.

Ohio Hardware Association.

Pres., W. P. Bogardus, Mt. Vernon.
V.-P., L. F. Stahler, Waverley.
Cor. Sec., D. R. Burr, Piqua.
Fin. Sec., W. C. Jones, Columbus.
Treas., H. A. Waller, Ravena.
Ex. Com., J. B. Carson, Hamilton; C. D. Cussins, Columbus; C. W. Jewell, Utica, M. B. Talmage, Mt. Gilead; H. F. Rahe, Cleveland; J. Rohrbacher, Akron; A. H. Strome, Wausau; Geo. G. Meyer, Cincinnati.

Pennsylvania Retail Hdw. Assn.

Pres., Geo. L. Moore, Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKees Rocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

St. Louis Stove Dealers Assn.

Pres.- F. A. Kansteiner.
1st V.-P., Aug. Steinmeyer.
2d V.-P., Aug. Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Assn.

Pres., F. A. Heitman, Houston.
1st V.-P., Col. B. F. Eshelman, New Orleans.
2d V.-P., John Donnan, Richmond, Va.
Sec., C. B. Carter, Knoxville.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Treland, Greensboro, S. C.; C. S. Speer, Hot Springs Ark.

Texas Hardware Jobbers' Assn.

Pres., Jas. Moroney, Dallas.
1st V.-P., J. C. Bering, Houston.
2d V.-P.- J. Burnsides, Ft. Worth.
Sec.-Treas., R. Bell, Weatherford.
Ex. Com., G. A. Trumbell, Dallas; F. A. Heitman, Houston; E. S. Hughes, Abilene; J. J. Dickerson, Paris.

Wisconsin Hdw. Dealers' Assn.

Pres., O. Schlafer, Appleton.
V.-P., L. Findiesen, Green Bay.
Sec.-Treas., C. A. Peck, Berlin.
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; A. Noll, Chilton; H. L. McNamara, Janesville.

A zinc works are being constructed at Atlantic City, N. J.

Parzybok & Fagan succeed Gale & Parzybok in the hardware business at Vinton, Ia.

The American Safe & Lock Co., Pittsburg, Pa., will change their style to the Clark Safe & Vault Co.

The Canton Hardware Co., Canton, Ohio, have increased their capital stock from $75,000 to $200,000.

The Eames Tool Co., Three Rivers, Mich., gave an exhibition on Nov. 19 to celebrate the opening of their new factory.

On Nov. 20 fire broke out at Salamanca, N. Y., doing severe damage to the hardware store of J. A. Andrews & Son.

The Pittsburg Mfg. & Supply Co., capitalized at $50,000, are a new Wheeling, W. Va., concern who will make gas engines.

J. H. Lourie, an Alamogordo (N. M.) hardware dealer, has secured a contract for putting up twenty-one miles of wire fence near Carrizozo, N. M.

John M. Marty, Jr., Virgil Marty, B. Sopaud and Wm. W. White are the incorporators of the Standard Pump & Engine Co., Cleveland, Ohio, capitalized at $10,000.

The residents of Gowanda, N. Y., have subscribed $20,000 toward a new cutlery factory to take the place of the one recently moved from that place to Titusville, Pa.

Llewellyn Rossiter, for a number of years with the Philadelphia Hardware & Malleable Iron Works, died at 1731 N. Marshall St., Philadelphia on November 18th in the 54th year of his age.

The Western Steel & Wire Co., Armourdale, Kans., are erecting a new building 66x220 feet in dimensions, which they expect to have finished by Jan. 1st, and which they will use both for warehouse and manufacturing purposes.

John Bindley, Edwin Bindley, E. J. Lloyd, W. H. Cochrane, John Reitz and W. J. Mercer are the incorporators of the Bindley Merchandising Co., Pittsburg, Pa., which concern will be an identified interest of the Bindley Hardware Co.

The Plume & Atwood Mfg. Co., 196 Lake street, Chicago, and 29 Murray street, New York, are manufacturers of the Eagle brand copper rivets and burrs. These are standard for quality and are made of Lake Superior copper.

The Taylor & Boggis Foundry Co., Cleveland, O., manufacture a large variety of hardware specialties. They are headquarters for light gray iron castings, builders' hardware, dampers and damper clips, oil and gas stoves, furnace lamps, molasses catches and letter boxes.

The annual meeting of the stockholders of the Utica Drop Forge & Tool Co., manufacturers of hardware specialties, will be held at the office of that company at 75 Genesee St., Utica, N. Y., Dec. 1, 1902, for the purpose of electing five directors for the ensuing year and two inspectors of election to serve at the next annual meeting.

H. E. Gnadt, vice-president of the Chicago Retail

Hardware Dealers' Association, was elected vice-president of the Twenty-Sixth Ward Republican Club of Chicago on Nov. 25. Mr. Gnadt is one of the younger men in the city who have made a marked success of the retail hardware business.

Kimball Bros. Co., 9th St. and 11th Ave., Council Bluffs, Ia., manufacturers of passenger, freight and belt power elevators, are sending out some very attractive enameled blotters. These show a picture of a little boy on his hands and knees crawling up to a big dog and asking him "Can you talk?"

Mr. and Mrs. Joseph Parks of Fort Plain, N. Y., were agreeably surprised on Nov. 18, when a number of his fellow employes of the Williams-Tanner Hardware Co. of that place, with their wives, called upon them to tender their respects and congratulations upon the seventeenth anniversary of their marriage. The visitors, through G. Cory Randall, presented the happy couple with an elegant golden oak rocker.

E. W. Deveney of Deveney, Hood & Co., Augusta, Ga., one of the most popular hardware jobbers in Dixie, is about to be "spliced," as the cards are out for his wedding 1:30 p. m. Wednesday, Dec. 10, to Miss Marie Doughty, daughter of Mr. and Mrs. James Palmer Doughty, at St. Patrick's church, that city. We join with his many friends in the trade in extending our warmest congratulations.

The Klondike Incubator Co., Des Moines, Ia., manufacturers of the Klondike incubators and brooders, send us a copy of their sixth annual catalogue and price list. The body of the Klondike Incubator is made with an inner and outer wall of a solid board each with a lining of asbestos paper and insulated dead air space between. The heat in the egg chamber is controlled and kept at an exact temperature by means of an automatic regulator, whose action is controlled by a wafer firmly boxed in the egg chamber just above the eggs.

The Lufkin Rule Co., Saginaw, Mich., are manufacturers of measuring tapes of every description, steel rules, hickory board and log rules, perfection glass board, boot calks and other specialties. This firm attracted marked attention at the recent convention of the National Hardware Association at New Orleans, La., on account of a very attractive souvenir which they gave away. This souvenir, which was one of the finest at the convention and was eagerly sought for by the jobbers, consisted of a finely graduated steel rule, heavily gold plated. It was certainly *ne-plus-ultra* in the rule line.

Fred E. Muzzy, who has probably as many personal friends among the Western hardware trade as any one, through his long service as one of the most active and genial of the traveling corps of the Simmons Hardware Co. of St. Louis, and who has for several years past been associated with the J. Stevens Arms and Tool Co., Chicopee Falls, Mass., has been honored by that concern with a promotion to their vice-presidency. This new position for Mr. Muzzy is strictly in the line of commercial civil service, as he has proven himself to be an invaluable man in looking after the extensive interests of this company in his former position. His many friends in the trade will extend to him their warmest congratulations over this deserved business success of his.

SIDE TANDEM SASH BALANCES.

The Pullman Sash Balance Co., Rochester, N. Y., are manufacturers of the tandem side and top balances. A number of important advantages are claimed for these balances, viz., that they are easily operated when in place; that they have less detph of mortise than any other balance, that they have narrower face plate for the size of balance than any other balance made; that there is less liability of breakage of parts, as the strain is divided; that the two tapes will out-wear one tape which is used to operate the same weight sash; that owing to the automatic adjustment tandem balances can be applied in half the time of any other make. This firm manufacture marine balances, railroad car balances, house balances, store front balances, show case balances, door holders, door checks and springs, sash chain and attachments, sash ribbon and attachments, and sash wire and attachments.

Side Tandem Sash Balance.

HARDWARE SPECIALTIES.

The accompanying cut shows the Korker hammer and the Winner half-pound hammer manufactured by the Franklin Specialty Co., 627-631 Franklin street, Reading, Pa.

The Korker hammer is 11 inches long, of light weight and nickel-plated. It has a varnished and polished hickory handle fastened to the hammer head with an oval head. It has a nickel-plated screw brass ferrule and nickel-plated claw.

The Korker Hammer.

Winner Half Pound Hammer

The Winner half-pound hammer is 12 inches long. Its weight is one-half pound and is substantially made of the best material, nickel-plated, with a handsomely finished hickory handle. This firm carry a full line of 10 and 15 cent goods and will be pleased to send catalogue to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

DAWN OF A NEW ERA.

The accompanying cut shows the 1903 calendar entitled "Dawn of a New Era," issued by the Peters Cartridge Co., Cincinnati, O.:

Dawn of a New Era.

The scene represents dawn through a gorge in the mountains with bold projections on either side. Out of the gorge comes a stream surrounded by wild game. A large bull moose comes splashing into the stream for his morning drink, startling a flock of sleepy mallards, and a deer on the opposite bank in the distance. In the immediate foreground are some handsome grouse just starting out for the day. Over all are the rich purple hues of the early morning imparting a sense of refreshing coolness.

One of these calendars will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

UP-TO-DATE LAWN MOWERS.

The Philadelphia Lawn Mower Co., Philadelphia, Pa., send us a copy of their 1903 catalogue and price list. This volume shows the lawn mowers of this company in attractive colors. Their style A. lawn mower is all steel; it has a cylinder with four blades; the height of the driving wheels are 10 inches; the diameter of cylinder is 6½ inches; it has train of three gears and a double ratchet. Their style E high-wheel lawn mower has cylinder with four blades, driving wheels 10 inches high, cylinder 6½ inches in diameter and a train of three gears and double ratchet. Their style E low-wheel lawn mower has cylinder with four blades, driving wheel 8 inches high, cylinder 5¼ inches in diameter and train of three gears and double ratchet. Their Golf lawn mower has cylinder with eight blades, driving wheel 10 inches high, cylinder 7½ inches in diameter and train of three gears and double ratchet. Their style XX has cylinder with five blades, 12-inch driving wheel, cylinder 7 inches in diameter, single pinion and is geared on both sides. Other lawn mowers shown in this volume are the style N, style K, style K roller bearing, style L, style C, style S, style T, with wrought iron riveted cylinder with knives bolted on; style M, with solid cylinder and three blades; the Drexel, Gold Coin, Dewey, All Day, Eagle Horse, Two Man or Pony mower, 36-inch Philadelphia mower, 30x35-inch Pony mower, with draft pole or with seat and shafts and side draft attachment, and their I. X. L. Horse mower. Other goods shown in this volume are the Philadelphia grass collector, which has a galvanized iron bottom and "never rip" cloth connections; the Horse Sweeper, which is drawn by a draft rod and has brushes made of cane with receiving boxes emptying into the rear and which can be emptied while the sweeper is in motion; and the Philadelphia lawn sprinklers. This firm give a binding guaranty with their mowers and will be pleased to send a catalogue to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

NEW LINE OF HARDWARE SPECIALTIES.

The C. S. Smith Mfg. Co., Milwaukee, Wis., are an old-time firm manufacturing hardware specialties. They have lately brought out an entire new line of these goods, which are worthy the close attention of the trade. Wagner & Marshall, 40 Dearborn street, Chicago, who are widely and favorably known to the trade and who are experienced hardware men, are sales agents for these new as well as the old goods of this concern. Among other new specialties are the Lundy silent steel parlor door hanger, Peerless covered anti-friction door hanger, Perfection steel roller bearing door hanger, Phoenix door hanger, Monarch covered all steel door hanger, warehouse anti-friction door hanger, Wagner's adjustable "Never Jump" door hanger, "Never Jump" swinging or hinged joint hangers, "Never Jump" track Smith's special steel door rail, wrought bracket steel door rail, plain steel door rail, milled steel door rail, cast brackets for plain and milled steel door rail, adjustable barn door stay rollers, Smith's one piece steel foot scraper.

Wagner's adjustable "Never Jump" door hanger is an all steel hanger, wheel excepted, which is cast and is also provided with an adjustable anti-friction stay-on devise grooved so as to maintain the same clearance between the wheel and track at all angles within its limits. It is arranged for adjustment from 1 inch track down to 1½ inch track.

The Monarch covered all steel door hanger has a wheel made from the special stamping steel with a deep groove to prevent it from jumping the track, and

is protected from snow or ice by a steel covering or hood. The axle is made from a special cold drawn steel well adapted for the purpose, and the entire hanger is well made throughout and finished nicely in baked japan.

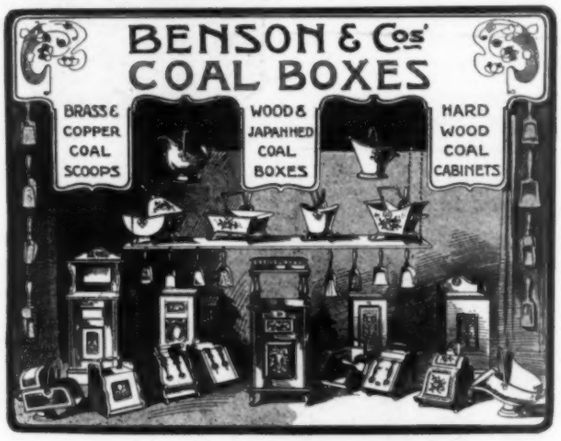
Smith's one piece steel foot scraper No. 12 will remove mud or ice without cutting the shoe, and will not bend or break by a sharp blow, and it is a one-piece stamping from special rolled steel. This article is oven baked, japanned and packed one dozen in a box.

The warehouse anti-friction door hanger is an all steel door hanger with the exception of the wheel, which is made of cast iron, and a groove deeply turned so as to prevent it from jumping the track. The wheel cannot be detached from the hanger. The axle is made from special cold drawn steel with a shoulder formed on one end holding same in the riderbar, which has the slot rounded at each end giving it an endless run. The hanger is well made throughout and nicely finished in baked japan. One of these catalogues will be forwarded the trade on application. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

AN ENGLISH IDEA OF DRESSING A HARDWARE WINDOW.

The accompanying cut is taken from the Hardware Trade Journal, and the following method of arrangement is also given:

The hanging over the top of the window could be made in calico, or better still in thin straw board, the pieces being nailed together with blind laths. Cut out to this shape, with the lettering nicely inserted in blue, and the little pieces of decoration at the corners



An English Window Display.

in blues and greens, such an arrangement would form a most effective advertisement. It is important that the lettering should be well done, and the decoration may easily be reproduced by carefully squaring over the sketch, and re-drawing on a squared-out sheet of paper proportionately larger. Here, indeed, is a chance for a talented assistant to show his powers.

As far as the paint is concerned, ordinary water color will run on straw board; but if oil paint is used, no such danger is possible. If we suppose that the coal vases are in walnut and the boxes in copper and iron, we want for the background a screen covered with some greenish material. This, with the straw board and the display, will make a most effective color scheme. I am aware that the suggestion for the top of the window is somewhat of an innovation; but if any ironmonger with a little artistic talent will undertake it, I feel sure he will find the reward justify his efforts.

In the first place he may find real satisfaction from what would undoubtedly prove a considerable improvement, as a change, in the appearance of his window; and in the second place he will gain a reputation for artistic powers which must in the long run help him, and bring to his shop customers whose requirements in this regard are a little special.

HUNTER'S SIFTERS.

The accompanying cut shows the Hunter sifter manufactured by the Fred J. Meyers Mfg. Co., Hamilton, Ohio. This is a combined mixer, scoop measure and dredger, rice washer, pumpkin, tomato, wine, starch and fruit strainer, and is, it is claimed, the only sifter with a loose cap on the handle so as to clean out the flour that accumulates in it while the sifter is in use. This firm would be pleased to send some of their circulars and descriptive matter to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

O. P. Schriver & Co., Cincinnati, Ohio, are manufacturers of the I. X. L. tool boxes. This contains one adjustable tool or file handle and the following handy and useful tools, which are made of the very best tempered steel. These are a saw seven inches long, an ice pick or scratch awl, screw driver for large or small screws, chisel, tack claw and gimlet, large brad awl, and small brad awl. The handle is made of malleable iron and is nicely tinned. The adjustable handle, besides holding the above tools, will hold any other small-shanked tools, also any kind or size of file. The circular which they send us shows an interesting optical illusion, showing a number of wheels moving around. One of these will be sent the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

REFERENCE BOOK FOR MERCHANTS.

The Presto acknowledges the receipt of a copy of "The Manual of Business," a well-bound and conveniently arranged book whose subject matter comprises a collection of business forms for executing the various commercial instruments, together with commercial data and advice on many questions of correct methods that are constantly arising in every day business life. It has been compiled from various sources by Sidney P. Johnston and is published by Daniel Stern, 69 Dearborn street, Chicago.

Heating and Ventilating.

E. T. Fishwick of the American Radiator Co., Chicago, is at present on his vacation, which he is spending at French Lick Springs, Ind.

H. E. Stevens is president of the recently incorporated Buckeye Heating & Mfg. Co., Cleveland, Ohio, located at Nos. 3 to 9 Court Place, that city.

Henry W. Quinby, Thos. J. Barry and Edward A. Meiser are the incorporators of the Holley Heat Regulator Co., Detroit, Mich., capitalized at $125,000.

W. A. Clark & Co., 35 Pike street, Covington, Ky., are manufacturers of Clark's celebrated underfeed furnaces. Among the features of these furnaces is the feeding device, which is hung oscillating. The radiator is on the top. The entire furnace is cast iron and it has but three joints.

Frank D. Stolz, 115 Lake street, Chicago, is manufacturer of the Champion combination hot water heaters. These fit any furnace; they are made in five sizes diameter and have from 100 to 700 square feet radiation capacity. They will heat cold rooms or an addition to a building, etc., and will increase the capacity of any furnace.

The S. M. Howes Co., 40-46 Union street, Boston, Mass., are offering the trade their Yankee hot air damper at an exceedingly low price. This is a stiff, quick-working and neat damper. It has enameled wood handle, which cannot come off, and spring which will not fall off. The rod is made of ¼-inch cold rolled steel and slips into the damper very smoothly.

The Sayre Stamping Co., Sayre, Pa., are manufacturers of the Uncle Sam damper. It has an enameled wood handle which will not heat, is rigidly clamped and cannot come off. The spring is not affected by heat. The stem is a steel rod of one piece, with nothing to fall apart. It is pointed and easily driven through the pipe. The damper plate is made of cold rolled pickled steel, corrugated to stiffen it and prevent warping.

Among the popular boilers manufactured by the Kewanee Boiler Co., Kewanee, Ill., and 167 Lake street, Chicago, is the Defender steel boiler for steam and hot water heating. This is a surface burner and burns hard or soft coal. It is portable or brick set. A descriptive catalogue will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

Bartlett Bros. Co., 178 Huron St., Cleveland, O., constructing, heating, ventilating and sanitary engineers are the manufacturers of thermographs and heat equalizers. E. V. Bartlett, president and manager of this company, and James Bartlett, secretary and treasurer, have been in the general heating and ventilating business in that city for the past ten years. C. H. North, the vice president of the company, is also an experienced heating man. This firm do public building work exclusively, and their business has increased very materially of late. This firm forward us a large wall map of Cleveland showing the public buildings in which their apparatus is in use.

CAST IRON VS. STEEL IN FURNACE CONSTRUCTION.

TO THE AMERICAN ARTISAN.

On page 70 of THE AMERICAN ARTISAN, date of Nov. 22, in criticising the advertisement of G. W. Gust, you say: "The facts are all right," referring to that part of the advertisement that says:

"All steel radiators (for furnaces) which have the same advantage over a cast iron one that a steel range has over an old-fashioned cast iron stove."

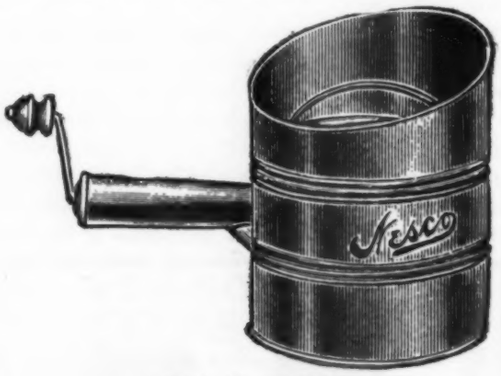
The above is undoubtedly true, but what advantage has the steel range over the cast iron range? Is not every part of of a steel range, where strength or durability is required, made of cast iron?

A furnace is made to radiate heat, and cast iron is the best known for that purpose. There are two good reasons for making a steel radiator—the patterns cost but little and the material costs less.

Chicago, Ill., Nov. 24, 1902. CHAS. SMITH.

ACME AND NESCO FLOUR SIFTERS.

The National Enameling & Stamping Co., with offices in New York, Baltimore, Chicago, Milwaukee, St. Louis and New Orleans, are manufacturers of two



Nesco Flour Sifter.

rotary flour sifters in the Nesco flour sifter and the Acme flour sifter. These sifters are made in the very best manner, and have many improved features. The Nesco flour sifter has crank running through the back handle; it is strongly constructed and has an improved agitator. They come packed one dozen in a case. The Acme flour sifter has back handles with side crank, and are, it is claimed, the most improved sifters on the market. This firm are in a position to make prompt shipments on either of these sifters. They would be pleased to furnish the trade with samples and price of these sifters from any of their branch offices. When writing for same, kindly add. "Saw it in THE AMERICAN ARTISAN."

Acme Flour Sifter.

Tinshop.

FLANGE ON ROOF PIPE.

Herewith is a pattern for a flange around a pipe coming through a roof with a certain pitch. A B represents the pitch of roof, G H K I represents the pipe passing through it, C D F E the flange fitting around the pipe at the line C D and against the roof

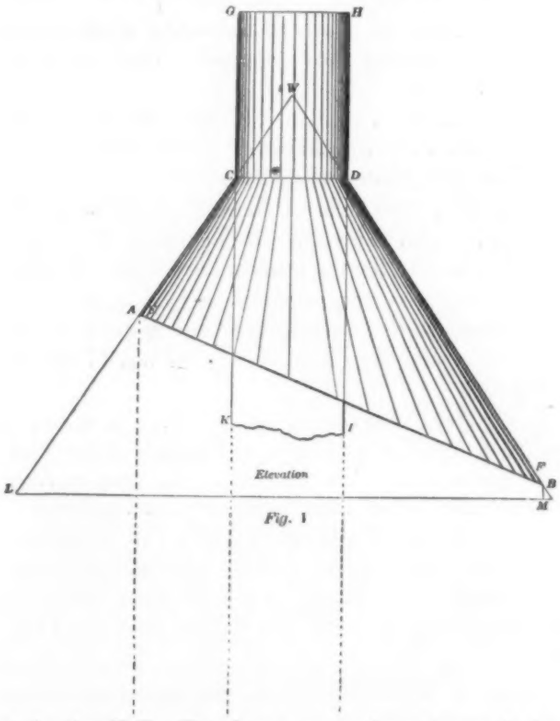


Fig. 1

at the line E F. The flange, as we have drawn it, becomes a section of a right cone (or the envelope rather). By prolonging C E and F D until they intersect at W the apex is found, and by continuing these same lines in the opposite direction to L M, and drawing the line L M, a section of the cone is described from the envelope of which the flange is cut. For the pattern proceed as follows: Divide the plan (Fig. 2) P X R into any convenient number of parts (we have twelve in this, the greater number the more accurate the pattern); and from each of the points so established erect perpendiculars to the base of the cone, obtaining the points 1^2, 2^2, 3^2, 4^2, etc. From these points draw lines to the apex of the cone W, cutting the oblique line E F and the top of the flange C D as shown, as the line C D cuts the cone at right angles to its axis; the line in the pattern corresponding to it will be the arc of a circle. But with E F, which cuts the cone obliquely to its axis, the case is different. A measurement in the pattern is required at each point corresponding to the divisions given in the plan. Accordingly, the several points in E F obtained by the lines from the plan drawn to the apex W, must be transferred to one of the sides of the cone. From the points 0^3, 1^3, 2^3, 3^3, 4^3, etc., in E F, draw lines at right angles to the axis of the cone W X, cutting the side W M as shown. With W as center and with W M as radius, strike the arc P^1 R^1 indefinitely, and with the same center and W D as radius, C^1 D^1, indefinitely, which will form the boundary of the pattern at the top. At any convenient distance from W M draw W P^1, a portion of the length of which will form the boundary

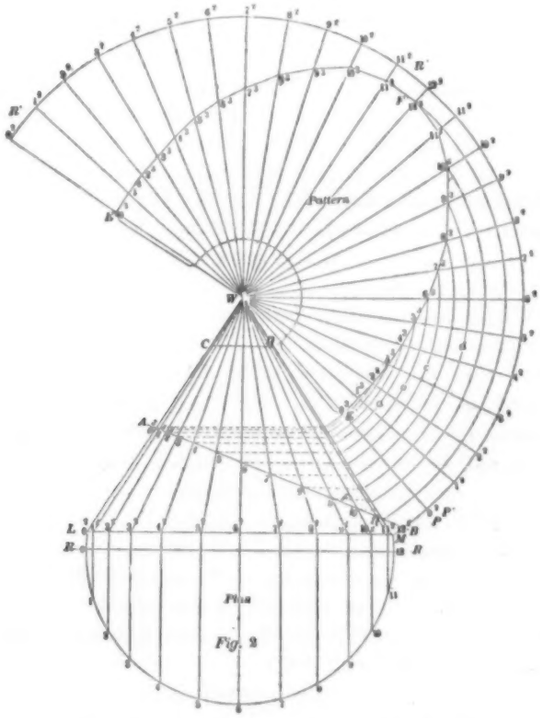


Fig. 2

of one end of the pattern. On P^1 R^1, commencing with P^1, set off spaces equal in length and twice in number (for the plan shows but one-half the pattern) as the divisions in the plan P X R, all as shown by 0^2, 1^2, 2^2, 3^2, etc. From these points draw lines to the center W, as shown in Fig. 2. With one point of the dividers set at W and the other brought successively to the points cut in W M, by the horizontal lines drawn from E F, cut the corresponding lines in the stretch out of the pattern as indicated by the curved dotted lines a b c d. A line traced through these points as E^1 F^1 E^1, will represent the lower side of the pattern. Allow for seams at E^1 C^1 D^1 F^1.

NOTES AND QUERIES.

EUREKA CREAM SEPARATOR.

From A. R. Gates, Independence, Ia.

Can you kindly furnish us with the name of the manufacturer of the Eureka cream separator?

(Can any of our readers answer this question?)

SCRAP BALER.

From Electrical Metal Separator Co., Brooklyn, N. Y.

Would like the address of manufacturers of a good scrap baler.

Ans. Famous Mfg. Co., East Chicago, Ind.

PATTERN MAKERS.

From W. A. Sewell & Co., Lyons, Ia.

Would like the address of reliable pattern makers.

Ans.—Artistic Stove Pattern Works, Philadelphia, Pa.; E. S. Bryant Pattern Co., Detroit, Mich.; Balkwill Pattern Works, 972 Hamilton street, Cleveland, O.; Geo. W. Cope Pattern Works, Detroit, Mich.; Cincinnati Pattern Works, Cincinnati, O.; E. L. Caley, Philadelphia, Pa.; Detroit Pattern Works,

Detroit, Mich.; Louis Duemer, Hamilton, O.; J. B. Ehrlich, Indianapolis, Ind.; Gobeille Pattern Works, Leonard street, Cleveland, O.; Indianapolis Artistic Pattern Works, Indianapolis, Ind.; Wm. L. Mersfelder, Cincinnati, O.; Milwaukee Pattern Works, Milwaukee, Wis.; Ohio Pattern Works, 125 W. Second street, Cincinnati, O.; Pennsylvania Artistic Stove Pattern Works, Philadelphia, Pa.; Remmers Pattern Co., St. Louis, Mo.; Quincy Pattern Works, Quincy, Ill.; Geo. E. Shaw & Son, 73 Champlain street, Cleveland, O.; Vedder Pattern Works, Troy, N. Y.; Weller Pattern Co., 1110 State street, Quincy, Ill.

TIN TUBING.

From J. Lyons, Dubuque, Ia.

Where can I obtain ¼-inch tin tubing?

Ans.—Baley Farrel & Co., Pittsburgh, Pa.; Boston Lead Co., 162 Congress street, Boston, Mass., and Chadwick Lead Works, 162 High street, Boston, Mass.; Jas. J. Collins, 7 and 9 Lake street, Chicago; J. L. Perkins & Co., 241 Lake street, Chicago.

STEEL FENCE POST.

From S. L. Thomas, Millersburg, Ind.

Where can I obtain steel fence posts?

Ans.—Twin City Wire and Fence Co., St. Paul, Minn.; Avery Stamping Co., Cleveland, Ohio; De Kalb Fence Co., De Kalb, Ill., and the Kokomo Fence Machine Co., Kokomo, Ind.

FRAMES FOR NAME PLATES.

From H. W. Williams, Waupauca, Wis.

Where can I obtain frames for name plates?

Ans.—H. L. Judd & Co., 87 Chambers street, New York.

PORTABLE GASOLENE BAKE OVENS.

From Burgess & Payne, Mulvane, Kans.

Where can we obtain portable gasolene bake ovens?

Ans.—G. S. Blodgett Co., Burlington, Vt.; A. Geisel Mfg. Co., St. Louis, Mo.; Graves Sheet Metal Works, Kansas City, Mo.; Hubbard Portable Oven Co., Chicago, Ill.; Monarch Stove and Mfg. Co., Mansfield, Ohio; Middleby Oven Co., 55 W. Van Buren street, Chicago, Ill.; Paxton Hardware Mfg. Co., Paxton, Ill.; Royal Polished Steel Roaster Co., Troy, N. Y.; Portable Oven Co., Buffalo, N. Y.; John Van Range Co., 419 Elm street, Cincinnati, Ohio; C. W. Trotter Sons, 7 East avenue, Rochester, N. Y.

BOOK ON "STEEL SQUARES."

From Louis Leidel, Highland, Ill.

Where can I get a small book explaining a steel square for tinners' use?

Ans.—"Steel Squares and Their Uses," by Fred Hodgson, price $1.00, is for sale by Daniel Stern, 69 Dearborn street, Chicago.

REVOLVING CHIMNEY TOPS.

From H. H. Windsor, Chicago.

Can you give me the addresses of manufacturers of revolving chimney tops?

Ans.—Berger Bros. Co., Philadelphia, Pa.; Berger Mfg. Co., Canton, O.; W. J. Burton & Co., Detroit, Mich.; Canton Steel Roofing Co., Canton, O.; Garry Iron & Steel Roofing Co., Cleveland, O.; Globe Ventilator Co., Troy, N. Y.; Iwan Bros., Streator, Ill.; Powers Bros., Streator, Ill.; Milwaukee Corrugating Co., Milwaukee, Wis., and Kramer Bros., Dayton, O.

ITEMS.

L. Muench has been elected first vice-president of the American Can Co.

The American Tube & Stamping Co., Bridgeport, Conn., will have their new plant in operation in May next.

Work is going rapidly forward on the new tin plate mills which are being erected at 23d avenue, E. Oakland, Cal.

It is said that the National Enameling & Stamping Works will remove their Portland, Conn., plant to Brooklyn, N. Y.

The American Tin Plate Co. have resumed work in their Demmler tin plate works near McKeesport, Pa., after five months of idleness.

W. E. Rowe and John G. Herman are the incorporators of the Elton Specialty Co., Baltimore, Md., capitalized at $1,000, for the manufacture of tin can tops.

The Enterprise Enameling Works, Bellaire, Ohio, are erecting three new buildings, one 80x100 feet in dimensions, and the other 108 by 180 feet in dimensions, each.

P. C. Weist is president, W. F. Weist is manager and A. E. Weist is secretary and treasurer of the York Corrugating Co., York, Pa., who have been recently incorporated for the manufacture of metal cornices.

The Burgess Soldering Furnace Co., Columbus, Ohio, are makers of the popular Gem soldering furnace, which, it is claimed, is always ready, gives out no smoke, odor or noise, and is safe, sure and durable.

Stuber & Kuck, Peoria, Ill., are manufacturers of asbestos stove mats, which are made of heavy asbestos mill board 9 inches, bound with metal band and wire ring. These are sold to the trade direct from the factory.

The La Crosse Steel Roofing and Corrugating Co., La Crosse, Wis., make steel roofing in all gauges, both painted and galvanized, and guarantee prompt shipments. They also have a very desirable line of eave trough, conductor pipe, elbows, hangers, miters and cut-offs.

The Lyons Specialty Co., Lyons, Ia., are manufacturers of the "Everlasting" chimney cap, which is made of cast iron and fits any chimney. It sets on top and is held in place by cement. There is a collar at top of cap for round pipe, when necessary to extend the chimney.

Chas. W. Bennett, of Elwood, Ind., who has been for a number of years chief engineer of the Indiana plants of the American Tin Plate Co., becomes manager of these plants, succeeding Berthold Goldsmith, who will become manager of the West Virginia plants of this company.

It is reported authoritatively that J. Ogden Armour has become interested in the sheet steel mills at Waukesha, Wis., and will furnish capital to the extent necessary for the establishment of a plan for making tin in connection with it. The mills at that point, which represent an outlay of $250,000, have been idle since

the beginning of the coal strike and have had great difficulty at times in securing fuel or steel.

The Illinois Roofing and Supply Co., 23 Lake street, Chicago, have a large stock of heater pipe plates on hand and can make prompt shipments. The plates are in the following sizes: 20x26 1c, 20x28 1c, 20x29½ 1c, 20x32½ 1c, 20x39 1c, 20x26 1x, 20x28 1x, 20x29½ 1x and 20x32½ 1x.

Powers Bros., Streator, Ill., point out the fact that tinners can find employment by advertising and using the Powers automatic chimney tops, which have a wide reputation for making chimneys draw. A cut showing the workings of these tops will be sent free to dealers handling same.

The Milwaukee Corrugating Co., Milwaukee, Wis., are manufacturers of a complete line of tinners' supplies, including eave trough, conductor pipe, elbows, hangers, corrugated cut-offs, conductor hooks, metal shingles, beaded iron, rock face, brick siding, crimped iron, curved iron, corrugated iron, steel roofing, etc.

S. J. Drew and Jenkin Howell, Joliet, Ill., have just secured a patent on an invention which will, it is claimed, revolutionize the manufacture of tin plate. The contrivance effects a great saving in the time necessary to handle sheet plates, does away with costly annealing pots and materially reduces fuel and labor expenses.

Friedley & Voshardt, 194-202 Mather street, Chicago, handle a very complete line of art metal ceilings for interior decorations. Their specialties include steel ceiling, zinc and copper ornaments, statuary, bronze, zinc and copper castings, finials, capitals, galvanized steel horses for merry-go-rounds, copper plate ceilings in antique finish, etc.

J. H. Jones, Lock Box 33, Streator, Ill., is manufacturer of the Illinois metallic skylight. These are known in every state and have stood the test for years. They are made in ten styles and 500 sizes. Mr. Jones will be pleased to send the trade a complete skylight, cornice and finial catalogue on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Avery Stamping Co., Cleveland, Ohio, send us some wierdly original and uniquely fantastic blotters advertising their "Never Break" steel spiders. On these blotters is the following poetry of a decidedly heart-rending order:

"Even the Beasts of the Wood will have their sway
With the Ping-Pong game, the fad of to-day.
For Brackets the Spider 'Never-Break'—they use
As this is something they cannot abuse.

"Made solid from steel, it has a great name;
More famous by far than any game.
So ever be wise in this world of fame
And stick to the 'Never-Break,' 'tis ever the same."

G. Laube, of Huron, S. D., accompanied by his daughter, Miss Hattie Rose Laube, was a recent caller at THE AMERICAN ARTISAN office while en route on a business trip that will take them through leading eastern cities and will last some eight months or so. Mr. Laube is well known to the world of sheet metal workers and has invented many valuable patents. He has just closed a deal with Farwell, Ozmun, Kirk & Co., St. Paul, transferring to them his patent for a straw burning stove.

F. A. Davis, a Fargo, N. D., tinner in a recent interview in the Fargo, N. D., Forum of Nov. 18th, says: "Business at my tin-shop in the basement of the L. K. Temple was quiet this summer, but this fall I am rushed with work, making stoves, base burners, pipe and repairing. Material this year is very high, in fact it has doubled in the past three years. I used to buy solder at 11 cents a pound, while to-day it is worth 28 cents. Copper used to be 17 cents a pound, while it is 34 cents this fall. I used to make money on stove pipe lengths at 15 cents, while to-day the material, not made up, costs me 16 cents a length and the pipe sells for 20 cents. This takes off much of the profit, but with plenty of work I make out all right."

Berger Bros. Co., with office and storeroom at 237 Arch street, Philadelphia, handle a number of desirable specialties for the trade. Their Logan soldering iron handle is made of cast iron pipe and the best hard wood. It is neatly finished, will not heat in use and will not break. The irons can be instantly fastened or released by turning a set screw. Their Perfection extension ladder is operated by an endless rope, which can be changed to either side. There is no rope or fixtures in the way. The catch irons operate by gravity. There are no springs to get out of order. This ladder has spruce wood sides and hickory rungs. Other goods handled by this firm are ears, handles, turn buckles, tin plate, sheet iron, pipe, gutters, hooks, hangers, etc.

The American Steel Roofing Co., Middletown, Ohio, are manufacturers of the Polygon conductor pipe. This pipe will not burst, as the twist in the corrugation checks the sudden fall of ice and water, thus protecting the joints. It stands hard knocks on account of its spiral corrugation and is much handsomer than the plain pipe. It is made in copper and galvanized iron. It obviates all danger and annoyance and possible damage, and it is furnished the trade by leading jobbers or by the manufacturers. This firm also handle a complete line of ventilating apparatus, sheet steel, galvanized sheets, etc., and will be pleased to send the trade some of their trade literature on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Briscoe Mfg. Co., Detroit, Mich., send us an interesting circular in English and German describing their O-Rib-O galvanized pails and tubs. These goods are ribbed and, it is claimed, have an advantage over wooden vessels which warp and dry, and only inferior makes of these pails which are easily bent when dented. In all this ware the bottom fits up tight to the sides, and there is no crack around the bottom for water or dirt to stick in. The superior point of this ware is the ribs, and it is claimed that in these ribs is the strength of a human body, a mighty ship or a roof. This firm are also manufacturers of the popular Century rural mail boxes. They will be pleased to send the trade some of their literature on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

ADVERTISERS' INDEX.

ALPHABETICAL LIST.

Acorn Brass Works..... 50
Adams & Elting..... 47
Aeolipyle Co..... 13
Aluminine Paint and Polish Co... 46
Aitchison, The Robert Perf'd Metal Co..... 45
American Bolt and Screw Case Co. 50
American Cutlery Co..... 55
American Radiator Co.....2-3
American Steel Roofing Co..... 41
American Tinplate Co..... 42
Art Modeling Co..... 49
Atkins, E. C. & Co..... 56
Atlas Bolt & Screw Co..... 1
Atlas Mfg. Co..... 1
Barnett, G. & H. Co..... 1
Beckwith, Estate of P. D..... 16
Berger Bros. Co..... 55
Berger Mfg. Co..... 43
Bergstrom Bros. & Co..... 10
Bertsch & Co..... 44
Best Light Co..... 50
Biddle, J. N., & Co. 52
Blacklock Foundry Co..... 44
Boynton Furnace Co..... 10
Brammer, H. F. Mfg. Co..... 52
Brand Stove Co..... 9
Brauer, A. G. 46
Bridgeport Crucible Co..... 46
Briscoe Mfg. Co..... 13
Brown, H. H., Mfg. Co..... 52
Bryce Heating and Ventilating Co. 12
Buckeye Paint & Varnish Co..... 48
Burgess Soldering Fur. Co..... 44
Burton, W. J. & Co..... 13
Canton Steel Roofing Co..... 42
Champion Steel Range Co..... 13
Chicago Solar Light Co..... 50
Chicago Stove Works..... 7
City Forge and Iron Works..... 45
Clark Novelty Co 2
Clark, Quien & Morse..... 52
Clayton & Lambert Mfg. Co..... 52
Cleveland Stamping & Tool Co.... 51
Columbus Bolt Works..... 1
Connors, Wm. Paint Mfg. Co..... 1
Cooney & Geiger 56
Cope, Geo. W. Pattern Works.... 46
Cortright Metal Roofing Co..... 55
Cutler Hardware Co 49
Deming Fence Works 44
Detroit Heating & Lighting Co... 8
Disston, Henry & Sons 52
Dixon, Jos. Crucible Co. 40
Dries, Andrews & Krump..... 44
Dust, Wm. T. Co..... 46
Dwight Slate Machine Co..... 45
Eller, J. H. & Co..... 42
Enterprise Mfg. Co. of Pa 51
Evans Stamping & Tool Co..... 47
Fairgrieve Toaster Co..... 48
Farwell, Ozmun, Kirk & Co. 53
Faultless Mfg. Co..... 12
Ferrosteel Co..... 13
Forbes Co... 40
Forest City Foundry & Mfg. Co... 14
Forest City Paint & Varnish Co... 48
Fox Cutlery Co..... 45
Franklin Specialty Co 56
Friedley & Voshardt..... 43
Fuller-Warren Co..... 4-5
Garry Iron & Steel Roofing Co.... 41
Globe Ventilator Co..... 56
Glogau & Co..... 53
Gobeille Pattern Works..... 46
Harley Burglar Proof Ventilating Sash Lock Co..... 51
Helios-Upton Co..... 11
Henry & Scheible Co..... 13
Hessler, H. E..... 48
Hoffman, Geo. W..... 46
Home Pride Range Co..... 54
Howes, S. M., Co... 47
Huffman, Theo. P. & Co..... 56
Illinois Roofing & Supply Co..... 41
Independent Register Co..... 1
Iwan Bros..... 55
Johnson, E. J. & Co..... 1
Jones, J. H..... 2
Kewanee Boiler Co..... 2
Kimball Bros. Co..... 55
LaCrosse Steel Roofing Co 42
Lee-Glass-Andreesen Hdw. Co... 53
Lufkin Rule Co..... 55
March, Brownback Stove Co..... 11
Matthews H. A., Mfg. Co..... 45
Mayer & Co..... 2
McClure & Co..... 56
Meyer, F. E & Bro..... 45
Meyer, F. E., Mfg. Co..... 49
Meyer Furnace Co..... 10
Milwaukee Corrugating Co..... 41
Milwaukee Pattern Works..... 46
Monroe Furnace & Foundry Co.... 9
Moshiek, P..... 52
Mueller, L. J. Furnace Co..... 12
Munsell, Eugene & Co..... 49
Nat. Enameling & Stamping Co... 54
Nicholson File Co..... 1
Nickel Plate Stove Polish Co..... 9
North Bros. Mfg. Co..... 50
Obermayer, S..... 14
Osborn, The J. M. & L. A. Co..... 56
Pelouze Scale & Mfg. Co 44
Perkins, J. L. & Co..... 1
Pittsburgh Stove & Range Co..... 8
Plume & Atwood Mfg. Co..... 2
Powers Bros..... 50
Pullman Sash Balance Co..... 56
Richmond Co..... 14
Rochester Radiator Co..... 11
Rome Mfg. Co..... 53
Safety Furnace Pipe Co..... 12
Sayre Stamping Co..... 46
Selleck, A. C..... 14
Smith, Chas. Co..... 2
Smith & Hemenway Co..... 51
Sperry, D. R. & Co..... 55
Stanley Rule & Level Co..... 51
Stevens Arms & Tool Co..... 56
Stewart, D. M., Mfg. Co..... 42
St. Louis Electrotyping & Foundry Co..... 46
Stolz, Frank D..... 2
Stuber & Kuck..... 48
Sunlight Lava Mfg. Co..... 40
Superior Mfg. Co..... 49
Sykes Steel Roofing Co..... 41
Tower Mfg. Co..... 52
Twin City Fence & Wire Works.. 45
Vance Boiler Co..... 2
Warren, J. D., Mfg. Co..... 48
Weber Gas and Gasoline Engine Co 45
Weiss, H. & Co..... 44
Weller Pattern Co..... 46
Welling Mfg. Co..... 55
Wilke Mfg. Co..... 40
Willard, Wm. G..... 9
White, Thos., Stove Co..... 6
Wynn, Lewis D..... 47

CLASSIFIED LIST.

Acetylene Burners.
Sunlight Lava Mfg. Co..... 40

Alcohol-Gas Stoves.
Glogau & Co..... 53

Architectural Sheet Metal Work.
Berger Mfg. Co..... 43
Canton Steel Roofing Co..... 42
Friedley & Voshardt..... 43

Asphalt Roofing.
Perkins, J. L. & Co..... 1

Caldrons.
Sperry, D. L. & Co..... 55

Carpenters' Tools.
Stanley Rule & Level Co..... 51

Cash Registers.
Biddle, J. N. & Co..... 52

Ceilings—Steel.
Berger Mfg. Co..... 43
Canton Steel Roofing Co..... 42
Eller, J. H. & Co..... 42
Friedley & Voshardt..... 43
Garry Iron & Steel Roofing Co.... 41
Illinois Roofing & Supply Co..... 46
Milwaukee Corrugating Co..... 41

Copper Ware.
Rome Mfg. Co..... 53

Corn Cribs.
Deming Fence Works 44

Cornice Brakes.
Dries, Andrews & Krump..... 42

Cornices.
Berger Mfg. Co. 43
Canton Steel Roofing Co..... 41
Garry Iron & Steel Roofing Co.... 41
Illinois Roofing Co 46
Milwaukee Corrugating Co..... 41

Cornice Ornaments and Statuary.
Friedley & Voshardt..... 43

Cream Separators.
Nat Enameling & Stamping Co.... 54
Superior Mfg. Co..... 49

Cutlery.
Cutler Hardware Co..... 49
Smith & Hemenway Co..... 51

Dehorners.
Brown, W. H., Mfg. Co..... 52

Drills.
North Bros. Mfg. Co..... 50

Eave Troughs.
Berger Bros. Co..... 55
Berger Mfg. Co..... 43
Canton Steel Roofing Co. 42
Clark, Quien & Morse..... 52
Garry Iron & Steel Roofing Co.... 41
Illinois Roofing & Supply Co..... 46
Milwaukee Corrugating Co..... 41

Elevators.
Kimball Bros..... 55

Excelsior.
Theo. P. Huffman & Co 56

Enamels.
Adams & Elting..... 47

Enamel Ware.
Cleveland Stamping & Tool Co.... 51
Nat. Enameling & Stamping Co... 54

Faucets.
Clark Novelty Co..... 2

Fencing
Deming Fence Works 44
Twin City Fence & Wire Works.. 45

Files.
Barnett, G. & H. Co..... 1
Disston, Henry & Sons..... 52
Mayer & Co..... 2
Nicholson File Co..... 1

Fire Arms.
Farwell, Ozmun & Kirk..... 53
Stevens, J. Arms & Tool Co..... 56

Fire Pots.
Clayton & Lambert Mfg. Co..... 52

Flour Sifters.
F. E. Meyer Mfg. Co..... 49

Flue Stoppers.
Welling Mfg. Co..... 55

Foundry Supplies.
Obermayer, S..... 14

Fruit Press.
Enterprise Mfg. Co. of Pa..... 51

Furnace Cement.
Connors, Wm. Paint Mfg. Co..... 1

Furnace Pipe.
Safety Furnace Pipe Co..... 12

Furnaces—Tinners.
Clayton & Lambert Co..... 52

Furnaces—Warm Air.
Bergstrom Bros. & Co..... 10
Boynton Furnace Co..... 10
Brand Stove Co..... 9
Bryce Heating & Ventilating Co.. 12
Detroit Heating & Lighting Co... 8
Faultless Mfg. Co..... 12
Forest City Foundry & Mfg. Co.. 14
Meyer Furnace Co... 10
Monroe Furnace & Foundry Co... 9
Mueller, L. J. Furnace Co..... 16
Smith, Chas. Co..... 2

Gas and Gasoline Engines.
Weber Gas and Gasoline Engine Co..... 45

Hammers.
Franklin Specialty Co..... 56

Hardware Fixtures.
American Bolt & Screw Case Co.. 50
Warren, J. D., Mfg. Co..... 48

Hardware Specialties.
American Bolt & Screw Case Co.. 50
Atkins, E. C. & Co..... 56
Atlas Mfg. Co .....
Atlas Bolt & Screw Co..... 1
Berger Bros. Co 55
Biddle, J. N. & Co..... 52
Blacklock Foundry Co..... 54
Briscoe Mfg. Co..... 13
Cutler Hardware Co..... 49
Fairgrieve Toaster Co..... 48
Forbes Co..... 40
Franklin Specialty Co 56
Hessler, H. E..... 48
Iwan Bros..... 55
Lee-Glass-Andreesen Co. 53
Lufkin Rule Co..... 55
Mayer & Co..... 2
Meyer, F. E. & Bro..... 45
Meyer, F. E., Mfg. Co..... 49
Moshiek, P..... 52
Nat. Enameling & Stamping Co... 54
Plume & Atwood Mfg. Co..... 2
North Bros. Mfg. Co..... 50
Smith, Hemenway & Co..... 51
Sperry, D. R. Co..... 55
Stanley Rule & Level Co..... 51
Stuber & Kuck..... 48
Tower Mfg. Co..... 52

Hay Knives.
Iwan Bros..... 55

Heaters—Hot Water and Steam.
American Radiator Co..... 2
Boynton Furnace Co 10
Kewanee Boiler Co..... 2
Smith, Chas. Co..... 2
Stolz, Frank D..... 2
Vance Boiler Co..... 2

Heating Devices.
Burton, W. J. & Co..... 13
Aeolipyle Co..... 13

Hot Air Registers.
Canton Steel Roofing Co 42
Ferrosteel Co..... 13
Henry & Scheible Co..... 13
Independent Register Co..... 1
Stolz, Frank D..... 2

House Furnishing Goods
Cleveland Stamping & Tool Co.... 51
Enterprise Mfg. Co. of Pa..... 51
Moshiek, P..... 52
Nat. Enameling & Stamping Co.. 54
Sperry, D. R. & Co..... 55
Stuber & Kuck 48

Incandescent Gas Lamps.
Acorn Brass Mfg. Co 48
Best Light Co..... 50
Chicago Solar Light Co..... 49

Knives.
Smith & Hemenway Co..... 51

Lanterns.
Berger Mfg. Co..... 43

Laundry Stoves.
Richmond Co 14

Metal Goods.
Art Modeling Co..... 49

Lawn Sprinklers.
Smith & Hemenway Co..... 51

Mail Boxes.
Hessler, H. E..... 48

Metal Shingles.
Cortright Metal Roofing Co..... 55
Garry Iron & Steel Roofing Co.... 41
Milwaukee Corrugating Co..... 41

Metals—Perforated.
Aitchison, The Robert Perf'd Metal Co..... 45

Metal Workers Crayons.
Stewart, D M., Mfg. Co..... 42

Metallic Shutters.
Berger Mfg. Co..... 43
Canton Steel Roofing Co..... 42
Garry Iron & Steel Roofing Co.... 41
Milwaukee Corrugating Co..... 41

Mica.
Munsell, Eugene & Co..... 49

Mitre Boxes.
Smith & Hemenway Co..... 51

Nail Pullers.
Smith & Hemenway Co..... 51

Oven Thermometers.
Evans Stamping & Plating Co.... 47
Helios Upton Co..... 11

Paints.
Buckeye Paint & Varnish Co..... 48
Connors, Wm. Paint Mfg. Co..... 1
Dixon, Jos. Crucible Co..... 40
Forest City Paint & Varnish Co.. 48

Pattern Letters.
St. Louis Electrotyping & Fdy. Co. 46

Plyers and Nippers.
Smith & Hemenway Co..... 51

Polish.
Aluminine Paint and Polish Co... 40
Hoffman, Geo. W..... 46

Post Hole Augers and Diggers.
Iwan Bros..... 55

Pumps.
Meyer, F. E. & Bro..... 45

Radiators.
American Radiator Co..... 2
Independent Register Co..... 1
Rochester Radiator Co..... 11
Selleck, A. C..... 14

Razors.
Smith & Hemenway Co..... 51

Refrigerators.
Wilke Mfg. Co..... 40

Registers.
Canton Steel Roofing Co..... 42
Ferrosteel Co..... 13
Henry & Scheible Co..... 13
Independent Register Co..... 1

Roofing.
American Steel Roofing Co..... 41
Berger Mfg. Co..... 43
Canton Steel Roofing Co..... 42
Cortright Metal Roofing Co..... 55
Eller, J. H. & Co..... 42
Garry Iron & Steel Co..... 41
LaCrosse Steel Roofing Co..... 42
Milwaukee Corrugating Co..... 41
Osborn, The J. M. & L. A. Co..... 56
Perkins, J. L. & Co..... 1
Sykes Steel Roofing Co..... 41

Roofing Slate.
Johnson, E. J. & Co..... 1

Sash Balance.
Pullman Sash Balance Co..... 56

Sash Locks.
Harlev Burglar Proof Ventilating Sash Lock Co..... 51

Saws.
Atkins, E. C. & Co..... 56
Disston, Henry & Sons..... 52

Saw Sets.
Disston, Henry & Sons..... 52
Smith & Hemenway Co..... 51

Scales.
American Cutlery Co..... 55
Pelouze Scale & Mfg. Co..... 44

Screw Drivers.
North Bros. Mfg. Co..... 50
Smith & Hemenway Co..... 51

Shaving Sets.
Fox Cutlery Co..... 45
Smith & Hemenway Co..... 51

Shelves.
Cutler Hardware Co..... 49

Skylights.
Burton, W. J. & Co..... 13
Canton Steel Roofing Co..... 42
Friedley & Voshardt..... 43
Illinois Roofing Co..... 46
Garry Iron & Steel Co..... 41
Jones, J. H..... 2
Milwaukee Corrugating Co..... 41

Skylight Gearing.
Weiss H. & Co..... 44

Slate Machines.
Dwight Slate Machine Co..... 45

Sporting Goods.
Farwell, Ozmun & Kirk..... 53
Stevens, J. Arms & Tool Co..... 56

Squaring Shears.
Bertsch & Co..... 44

Stove Bolts.
Atlas Bolt & Screw Co..... 1

Stove Casters.
Independent Register Co..... 1

Stove Lining.
Connors, Wm. Paint Mfg. Co..... 1
Bridgeport Crucible Co..... 46

Stove Patterns.
Cope, Geo. W. Pattern Works..... 46
Gobeille Pattern Works..... 46
Milwaukee Pattern Works..... 46
Weller Pattern Co..... 46

Stove Polish.
Aluminine Paint and Polish Co... 40
Dixon, Jos. Crucible Co..... 40
Nickel Plate Stove Polish Co..... 9
Wynn, Lewis D..... 47

Stove Pipe Thimbles.
City Forge & Iron Works..... 45

Stove Putty.
Conners, Wm. Paint Mfg. Co..... 1

Stove Registers.
Matthews, H. A., Mfg. Co..... 45

Stove Repairs.
Brauer, A. G..... 46
Dust, Wm. T. Co..... 46

Stoves and Ranges.
Beckwith, Estate of P. D..... 16
Brand Stove Co..... 9
Briscoe Mfg. Co..... 13
Champion Steel Range Co..... 13
Chicago Stove Works..... 7
Fuller-Warren Co..... 4-5
Home Pride Range Co..... 54
March, Brownback Stove Co..... 11
Pittsburgh Stove & Range Co..... 8
Richmond Co..... 14
White, Thos. Stove Co..... 6
Willard, Wm. G..... 9

Stove Trimmings.
Atlas Bolt & Screw Co..... 1
Columbus Bolt Wks..... 1
Howes, S. M. Co..... 47
Matthews, H. A., Mfg. Co..... 45
Richmond Co..... 14
Sayre Stamping Co..... 46

Tacks.
Tower Mfg. Co..... 52

Tape Measures.
Lufkin Rule Co..... 55

Tinners' Tools and Supplies.
Berger Bros. Co..... 55
Burgess Soldering Furnace Co..... 44
Lufkin Rule Co..... 55
Perkins, J. L. & Co..... 1
Stanley Rule & Level Co..... 51
Weiss H. & Co..... 44

Tinplate.
American Tinplate Co..... 42
Illinois Roofing & Supply Co..... 46
McClure & Co..... 56
Osborn, The J. M. & L. A. Co..... 56

Tinware.
Cooney & Geiger..... 56
Nat. Enameling & Stamping Co... 54
Stuber & Kuck..... 48

Ventilators.
Berger Bros. Co..... 55
Berger Mfg. Co..... 43
Burton, W. J. & Co..... 18
Canton Steel Roofing Co..... 42
Garry Iron & Steel Roofing Co..... 41
Globe Ventilator Co..... 56
Iwan Bros..... 55
Milwaukee Corrugating Co..... 41
Powers Bros..... 50

Wash Boilers.
Moshiek, P..... 9
Stuber & Kuck..... 48

Washing Machines.
Brammer, H. F. Mfg. Co..... 52
Clark, Quien & Morse..... 52

USING PEAT FOR FUEL.

Peat is all organic matter, formed from mosses and other minor plants, which have been submerged in water and thus preserved in the bogs. As it exists in the bogs, the largest constituent is water, dry matter forming only about 10 per cent of the total weight. In fact, the drying of the peat is everywhere regarded as the most troublesome point, for it is impossible to remove the water economically in any artificial way, either by pressure or by heating in kilns or kiln-like appliances; the peat must be dried in the open air and the preparation thus becomes dependent on the climate.

The most ancient method of digging peat, still much used, is the simple one of cutting it by hand with a spade in regular, rectangular pieces, which are then spread on the leveled surface of the bog and dried. At present this method is much used in the Netherlands and in Germany. Although it requires much labor, yet it will often give a very cheap fuel, especially where wages are low, a skilled laborer being able to work one metric ton dried peat in a day.

In order to reduce the volume peat-milling machines have been commonly introduced into all European countries within the last fifty years. In these machines the fibrous structure of the peat is broken up, the mass kneaded, mixed and somewhat pressed together; it contracts considerably in drying, the volume of the peat often being only one-eighth of the original. Thus the peat gains a very compact consistence and bears a close resemblance to lignite, both in appearance and density. Most of these machines knead the peat as it is taken from the bog. The machines thus used consist of a hollow cast-iron cylinder or cone, in which rotate one or two rollers set with knives or screw-ridges, which break up the peat, mix it, and lastly press it through a mouthpiece, which it leaves in the form of a continuous rectangular block. This block is wet and soft as the peat in its natural state, and is cut in pieces at proper lengths and then carried off to dry.—Adolf Dal, in the Engineering Magazine.

FOOTBALL.

We saw the football men
Line up in order thus:

```
        O
      O O
        O
O O O O O O O
.............................
O O O O O O O
        O
      O O
        O
```

The whistle blew, and then
Things looked this way to us:
Ouch!
&æœœ! !!!???? 1239
..... ETAOIN SHRDLLU ET .....
vbgkqj ? (|'!).||||
Woof!

—Newark News.

A SUBSTITUTE FOR PAPER.

It is stated that experiments with aluminum as a substitute for paper are now under way in France. It is now possible to roll aluminium into sheets four-thousands of an inch in thickness, in which form it weighs less than paper. By the adoption of suitable machinery these sheets can be made even thinner, and can be used for book and writing and paper. The metal will not oxidize, is practically fire and waterproof and is indestructible by worms.—Ex.

Trade Report.

CHICAGO IRON MARKET.

With the approach of the holiday season, there is beginning to be felt the usual end of the year lull in trading. It is not unwelcome to sellers, and brief though it may be, it will give the market an opportunity to subside to a more normal level. The present condition, with its widely varying prices, is not a healthy one, and almost without exception manufacturers would be glad to see a general lowering of values. So long as the fuel famine and car shortage continue, however, it is not expected that iron for the early part of next year will be less than $20 Birmingham for No. 2 foundry. There has been little buying during the week for the last half of 1903, though a more active demand has been felt for the second quarter. Foundrymen, as a general rule, while sounding the market freely for deliveries commencing with July, show no haste in placing contracts, the wide range of prices for this delivery, from $18 to $20, inclining them to the belief that still lower prices might prevail later on. The demand for spot iron has fallen off considerably during the week, and No. 2 foundry is being offered this week at from $25.65 to $26.15. This gives no assurance that the market will remain weak, as recent history has shown that when spot iron has dropped 50c a ton, it has regained its old position, and sometimes advanced beyond it, the following week. The present weakness is due in a great measure to the fact that Southern furnaces have been making good deliveries on their contracts, but the condition of the railroads gives no promise that this will continue. One Southern furnace company has 10,000 tons of iron stocked in its yards because of the scarcity of cars, while another company in the same section has been thrown behind in its deliveries to the extent of 160,000 tons from causes arising out of the car famine. Several furnaces in the West are still banked or blown out for want of fuel, and all of them will carry over into the coming year heavy tonnages booked for delivery this year. There are several large inquiries in the market for shipment between January and June, one for 20,000 tons of gray forge iron from a local interest, but none of them has been placed of yet.

WIRE NAILS.

Wire nails are quoted at $2.10 in carload lots and $2.10 in smaller lots.

CUT NAILS.

Cut nails are $2.15 in carload lots and $2.20@2.25 in smaller lots.

COPPER.

There is no change to note in copper, the market being dull and weak. Lake, round lots, 11.35@11.55c; electrolytic, 11@11.25c; casting, 11@11.25c. London was cabled easy: Standard copper, closing spot, £50 1s 3d; sales, 500 tons; futures, £50 7s 6d; sales, 250 tons.

BARB WIRE.

Barb wire is quoted at $2.05 in carload lots and $2.15 in smaller lots.

PLAIN WIRE.

Carload lots of plain wire are quoted at $1.90 and smaller lots are $2.00.

MANUFACTURED COPPER.

Manufactured copper is steady on a basis of 18c for sheets and bars.

TIN.

Tin is again weak and lower: New York, round lots, spot, 24.35@24.70c; futures, 24.25@24.50c; jobbing, 25½@26c. London was last cabled quiet at £112 for spot, and £111 5s for futures.

TIN PLATES.

Tin plates are quiet, with prices steady: Melyn, $6.50@7; Alloway, $5.75@6.25; coke, $4.87½@6.50; terns, $5.25@8; additional X, $1.50@1.75 more.

LEAD.

Lead is unchanged: Round lots, New York, 4.12½c; jobbing, 4⅜@4¾c, according to amount. London, £10 13s 9d; St. Louis steady at 3.97½@4c. Manufactured: Pipe, 6½c; sheet, 7¼c; tin pipe, 50c; tin-lined pipe, 12½c; old lead, in exchange, 3¾c; tee, 3¼c.

SPELTER.

Spelter is easy: Round lots, New York, 5.20c; jobbing, ¼@½c more; sheet zinc, cask lots, 6¾@7c; small lots, 7¾@8c. St. Louis market is quoted at 4.95c; London, £19 17s 6d.

ANTIMONY.

Antimony is quiet but steady: Cookson's, 9@9½c; Hallett's, 7⅜c; United States Star and other brands, 7⅛@7¼c.

NICKEL.

Nickel is steady at 40@47c for large lots. Small lots high as 60c.

PLATINUM.

Platinum is firm with a good demand: New York, $19 per oz for large lots.

QUICKSILVER.

Quicksilver is unchanged: New York, $48 per flask for large lots; small orders more; San Francisco, $45.50@46.50, domestic orders; exports, $44; London, £8 15s.

ALUMINUM.

Aluminum is steady: No. 1 ingots, 33@37c per lb; No. 2, 31@34c; rolled sheets, 4c and up.

SCRAP IRON.

There is a steady market for scrap iron, at revised quotations. Pittsburg quotes No. 1 wrought at $21@21.50 per ton. Here the quotations are: No. 1 wrought railroad, 80@85c; No. 1 wrought dealers, 75c; No. 1 cast, 95c@$1; wrought turnings, $14 per ton; cast borings, $8@8.50 per ton; stove plate, 60c; soft steel, $17 per ton; old iron rails, $21 per ton; old steel rails, $17@18.

CORN SHELLERS.

The latest prices on Union corn shellers is $7.25 per dozen.

WRAPPING PAPER.

Rag wrapping paper is now listed at 2 cents a pound.

POST HOLE AUGERS.

Digwell 8-inch post hole augers are now listed at $13.00 per dozen.

SASH WEIGHTS.

The latest list prices on sash weights f. o. b. Chicago, is $30 per ton.

LINSEED OIL.

Strictly pure raw linseed oil is now quoted at 46 cents per gal; strictly pure boiled linseed oil is now quoted at 47 cents per gal.

BLACK GUN POWDER.

Kings' Quickshot black gun powder is now quoted at $4.50 per keg; per half keg, $2.50, and per quarter keg, $1.40.

Austin's Quickshot black gun powder is now listed at $4.50 per keg; $2.50 per half keg, and $1.40 per quarter keg.

BAR IRON.

There has been an increased demand for iron on the part of railroads and car builders, as a result of the large orders that have been placed for rolling stock. The general demand, however, is below normal, and prices are somewhat irregular. Specifications are up to the average of recent weeks, and are for mixed light and heavy sizes. We quote mill shipments, Chicago delivery, Bessemer steel, 1.75c to 1.85c; angles less than 3x3, 1.85c to 1.95c base; iron, 1.80c to 1.90c; hoops, 2.15c. Prices on stock from store, steel, 2c to 2.10c; iron, 2.15c to 2.20c; hoops, 2.40c to 2.50c; angles, 2.50c to 2.60c.

STRUCTURAL STEEL.

All the large producers are sold so far ahead that promoters of new building enterprises, of which there are many in this city, find little encouragement to go ahead with their structures, not being able to get any promise of delivery of material before winter of next year. This, together with the fact that large jobbers have covered for their needs, has resulted in a quiet market. Specifications are numerous, mills being delayed in shipments. We quote mill prices, Chicago indefinite delivery, as follows: Beams, 15 inches and under, 1.75c to 1.85c; 18 inches and over, 1.85c to 2c; universal plates, 1.75c to 2c; angles, channels and tees, smaller than 3 inches, 1.85c to 2c base. For prompt shipment from mills, prices are 40 cents higher on carload lots than above. On lots from store, we quote 2½c to 3½c per pound.

BILLETS.

There is a good demand for both domestic and foreign billets, and the sales of the week include 5,000 tons of German basic Bessemer billets for Eastern delivery, December to January, at $27 seaboard, duty paid. We quote domestic open-hearth billets, $38 to $40, according to quantity and delivery; foreign forging billets in large lots, $36 to $37.

RAILS AND TRACK SUPPLIES.

Demand for heavy rails is active, among the several inquiries in the market being one for 9,000 tons. There has also been active buying of light rails and track supplies. We quote standard sections, $28; second quality, $27; light rails, 45 pounds, $34 to $35; 12 pounds, $40 to $41, with regular differentials for intermediate sizes; light rails out of store, $45 to $50. Track supplies, mill shipment, are quoted as follows: Angle bars, 2c to 2.10c; spikes, first quality, 2.25c; second quality, 2.15c; track bolts, 3½x¾, with square nuts, 2.85c to 3c per 100 pounds; with hexagon nuts, 3.05c to 3.15c, with usual differentials for other sizes.

PLATES.

There is an active inquiry, and sales during the past week aggregate 12,000 to 15,000 tons. Mills are sold up to nearly June of next year. We quote mill prices, Chicago delivery, future shipments: Tank steel, ¼ inch and heavier, 1.75c to 2.10c; flange steel, 1.85c to 2.20c; from stock, tank steel, ¼ inch and heavier, 2.25c to 2.40c; 3-16, 2.35c to 2.50c; No. 8, 2.40c to 2.60c; flange steel, 2.50c to 2.65c.

MERCHANT STEEL.

Mills report little new business, not being in a position to handle more owing to their crowded condition. Specifications are active. Toe calk has advanced $1 a ton during the week under review. We quote mill shipments, Chicago delivery, as follows: Spring steel, 2.65c to 2.75c; sleigh shoe, 1.95c, flat sizes; concave and convex, 2c; out of store, 2.15c; cutter shoe, 2.50c to 2.60c; machinery steel, 2.15c to 2.25c, base; plow steel, 2.50c and upwards, according to quality; toe calk, 2.30c to 2.40c; out of stock, 3c to 3.10c; ordinary tool steel, 6c to 7c; specials, 13c and upwards; less than carload lots, 5 per cent to 10 per cent higher; cold rolled shafting, carload lots, 47 per cent off, Chicago; less than carload lots, 42 per cent off, Chicago.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

			Per Box.
IC	14x14		$11 25
IC	14x20		7 50
IX	14x20		9 00
IXX	14x20		10 50
IXXX	14x20		12 00
IXXXX	14x20		13 50
IC	20x28		15 00
IX	20x28		18 00
IXX	20x28		21 00

COKE PLATES.

Cokes, 180 lbs	IC	20x28	9 50
Cokes, 200 lbs	IC	20x28	9 75
Cokes, 216 lbs	IC	20x28	10 25
Cokes, 216 lbs	IX	20x28	11 75

PIG IRON.

Lake Sup. Charcoal	$25 00@$26 00
Local Coke Fdy No. 1	23 50@ 24 00
Local Coke Fdy No. 2	23 00@ 23 50
Local Coke Fdy No. 3	22 50@ 23 00
Local Scotch Fdy No. 1	24 00@ 24 50
Southern Coke No. 1	23 65@ 24 15
Southern Coke No. 2	23 15@ 24 40
Southern Coke No. 3	22 65@ 22 90
Southern Coke No. 4	22 16@ 22 40
Southern No. 1 Soft	23 50@ 24 00
Southern No. 2 Soft	22 50@ 23 00
Southern Gray Forge	21 15@ 21 65
Southern Silveries	23 50@ 24 00
Jackson Co. Silveries	31 00@ 32 00
Ohio Strong Softeners	27 00@ 27 60
Alabama Car Wheel	26 65@ 27 65
Malleable Bessemer	23 00@ 23 50

BLACK SHEET STEEL.

No. 16	per 100 lbs.	$3 00
No. 18-20	per 100 lbs.	3 10
No. 22-24	per 100 lbs.	3 20
No. 25-26	per 100 lbs.	3 30
No. 27	per 100 lbs.	3 40
No. 28	per 100 lbs.	3 50
No. 29	per 100 lbs.	3 65

SMOOTH STEEL.

Wood's Smooth	No. 15-17	3 20
" "	No. 18	3 30
" "	No. 20	3 40
" "	No. 22-24	3 50
" "	No. 25-26	3 55
" "	No. 27	3 70
" "	No. 28	3 80

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. ....."A" $10 20, "B" $9 20

GALVANIZED IRON

	Per 100 lbs.
26 Ga.—24, 26, 28 and 30 in. x 8 ft.	$4 40
26 Ga.—36 in. x 8 ft	4 70
27 Ga.—24, 26, 28 and 30 in. x 8 ft.	4 70
27 Ga.—36 in. x 8 ft	5 00
28 Ga.—24, 28 and 30 in. x 8 ft	5 00
28 Ga.—36 in. x 8 ft	5 35

HOOP IRON.

¾x22	¾x20	¾x20
$3 20 100lbs.	$3 10 100lbs.	$3 00 100lbs.
1x20	1¼x19	1½x19
$2 90 100lbs.	$2 85 100lbs.	$2 75 100lbs.

PAINTED CORRUGATED IRON.

8-ft. sheets, 2½x28 Ga....per sq., $2 60

SOLDER.

XXX Guaranteed ½&½ per lb.	19c
Commercial ½&½ per lb.	17¾c
No. 1 Plumbers	15¾c

SHEET ZINC.

600 lb. Casks.....base, per lb. 6¾c

COPPER.

Copper.....base, 20c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@4 62½c
.....	5½@¾c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES.

Carpenters'.
- Ajax.....50%
- Blood's.....40&5%
- Hunt's.....25%
- White's.....12½%

Coopers'.
- Barton's.....20%
- White's.....15%

Ship.
- Ajax.....50%
- Blood's.....40&5%
- Hunt's.....25%
- White's.....12½%

AMMUNITION.

Caps, Percussion—per 1,000.
- F L Waterproof, 1-10s.....50c
- G D.....35c
- Eley's.....52c

Cartridges.
- Peters Rim Fire Ctgs.....50&3%
- Peters Cent Fire, Pistol & Rifle 25&3%
- Peters Cent Fire, Military and Sporting Ctgs.....15&8%
- Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.
- Peters Blank Ctgs. 22 cal.....$1 18
- Peters Blank Ctgs. 32 cal., C. F.. 4 40
- Peters B B Caps, Round ball....$1 44
- Peters B B Caps, Conical ball...$1 85
- U. M. C. Rim Fire Ctgs.....50&3%
- U. M. C. Cent. Fire, Pistol & Rifl 25&3%
- Winchester Cent. Fire, Military and Sporting Ctgs.....15&8%
- U. M. C. B B Caps, Round Ball .....$1 75..18%
- U. M. C. B B Caps, Con. Ball. $1 85 net
- U. M. C. Rim Fire Shot Ctgs. 50&15&3%
- U. M. C. Cent. " " " 25&10&3%

Primers.
- Berdan Primers.....$1 00
- Peters Primers..... 1 20
- U. M. C. Primers..... 1 20
- Winchester Primers..... 1 20

Shells.
- Peters Empty Paper Shells, 10 and 12 gauge. League.....25&2%
- Peters Empty Paper Shells, 16 gauge. League.....20&2%
- Peters New Victor Nitro Shls..20&2%
- Ideal.....25&7%
- Peters Loaded Shells. League and Referee Semi-Smokeless. 40&6%
- Peters New Victor Loaded Shells, with King's Smokeless...40&10&1%
- Ideals Loaded with King's Smokeless.....40&10&10&6%
- U. M. C. New Club, 16 gauge....20&2%
- U. M. C. New Club.....25&2%
- U. M. C. Nitro.....20&2%
- U. M. C. High Base.....20&2%
- Winchester Blue Rivals ..... } 20&2%
- Winchester Yellow Rivals ... }
- Winchester Repeater .....20&2%
- Winchester Leader.....25&7%
- U. M. C. Loaded Shells, Black Powder..... } 40&6% full cases
- Winchester Loaded Shells, Black Powder..... }
- U. M. C..... } Smokeless 40&10&10&6% full cases
- Winchester..... }

Gun Wads—per 1,000.
- Peters Gun Wads.....18%
- U. M. C. Gun Wads.....18%

Powder.
- King's Quickshot Powder; Kegs $4.50; ½ kegs $2.50; ¼ kegs $1.40.
- King's Semi-Smokeless, new list. 10%
- King's Smokeless, new list.....10%
- Austin Quickshot Powder, Kegs $4.50; ½ kegs $2.50; ¼ kegs $1 40
- Dupont Smokeless, Sporting, 25, ...20, 10&10%

Shot.
- Dropshot, sizes smaller than B, 25-lb. bags, per bag.....$1 30
- Drop shot, B and larger sizes, 25-lb. bags, per bag..... 1 55
- Buck Shot, 25-lb. bags, per bag.. 1 55
- Chilled Shot, 25-lb. bags, per bag. 1 55

ANVILS.

- Trenton, 70 to 80 lbs.....9¾c per lb
- Trenton, 81 to 150 lbs:.....9c per lb

AUGERS.

Boring Machine.....65&10%

Carpenters' Nut.....65&10%

Hollow:
- Ives' New Pattern.....25%
- Bonney's—list $30.00.....65&10%
- Stearn's, No. 1 .....doz. $42 00
- Stearn's, No. 3..... " 33 50

Post Hole.
- Dalbey, 8-inch.....per doz. $ 5 75
- Digwell, 8-inch ..... " 13 00
- Howe's, 6 and 8-inch.. " 12 50
- Vaughan's, 4 to 9-inch " 7 00

Rafting.
- Snell's.....50&5%

Ship.
- Snell's, with or without screw..... 40&5%

AWLS.

Brad, handled.....per doz. $0 26
- shouldered, ass'd, 1 to 4 .....per gr. 1 10
- patent, asst'd, 1 to 4 " 95

Harness, common..... " 1 20
- patent..... " 95

Peg, shouldered ..... " 1 10
- patent..... " 40

Scratch, No. 2, handled... " 4 50
- No. 1, socket handled.....per doz. 1 15

Sewing, common.....per gr. 1 10
- patent ..... " 95

AXES.

Boys', Handled:
- Camp Fire, 3-lb., per doz.....$5 75
- " " 4-lb., freighters', per doz..... 6 75
- Cast Steel, good grade, pr. dz., 5 50
- Pioneer, per doz..... 6 75

Broad:
- Peerless.....50%
- Plumb's Canada Pattern, ½50 10-5%
- " Western " 40-10-5%
- Red Warrior, per doz.....$18 50

Firemen's, per doz.....$15 50

Single Bitted (without handles)
- Cuyahoga Chief, per doz.....$6 00
- Gladstone, " " 7 75
- Hubbard's " " 6 50
- Hunt's " " 6 25
- Lippincott's " " 6 25
- Mann's " " 6 25
- Pioneer " " 6 75
- U. S. A. " " 7 75
- Valley Forge " " 6 25
- Second Quality " " 5 75

Double Bitted (without handles):
- Lippincott's .....per doz $8 75
- Mann's ..... " " 8 75
- Pioneer ..... " " 9 25
- U. S. A..... " " 11 00
- Valley Forge..... " " 8 75

Ship, Blood s..... " " 18 50

BALANCES, SPRING.

- Frary's..... 50%
- Pelouze 20%

BAGS, PAPER NAIL.

Pounds.. 3 5 10 16 20 25
Per 1,000. $1 60 1 85 2 60 3 40 3 90 4 75

BARS, CROW.

Pinch or Wedge Point.....cwt. $3 60

BEAMS—SCALE.

P. S. & W Co.....40%

BEATERS.

Carpet, Rattan.....per doz $2 40
- Raymond's Steel Wire, " " 80
- Woven Wire, No. 4.. " " 1 25

Egg.
- Dover Pattern.....per doz. $0 70
- Genuine Dover..... " 0 90
- Mammoth Dover..... " 1 75
- Lightning ..... " 0 84
- Lyon's (standard size) " 1 75
- Whip, French..... " 1 35
- Spiral ..... " 0 40
- Spoon..... " 0 40
- Surprise.....per gro. 1 45

BELLOWS.

Blacksmiths'.....70&5%

Hand, 8 in.....per doz. $ 6 85
- 10 in..... " 8 40

Molders', 12 in.....per doz. 13 00

BELLS

Call.
- 2¾ in. nickeled bell .per doz. $ 1 40
- 2¾ in. " brass bell" 3 20
- 3 in. " " " " 7 25
- 3 in. " silver alloy bell, ...per doz. 16 50
- 4½ in. " brass bell and base.....per doz. 15 75

Cow.
- Ordinary Goods.....70&5%
- High Grade.....60&10%
- Jersey.....70&10%

Door.
- Bigelow Automatic.. per doz. $9 50
- Rotary.
- 3 in. bronzed iron bell " 5 25
- 3 in. nickeled " " " 7 50
- 3½ in. " " " " 9 00

Hand.
- Hand Bells, Polished....60@60&10%
- White Metal.....50%
- Nickel Plated.....40%
- Swiss.....50&10%
- Silver Chime.....33⅓%

Miscellaneous.
- Church and School, Steel Alloy, ...50, 10 & 5%
- Farm, lbs.. 40 50 75 100
- Each. $0 85 $1 25 $1 75 $2 40

Miscellaneous Cont.
- Strapped Sheep .....per doz. $1 75
- House Gong.....40&5%
- Sleigh, Round, Loose.....40&5%

BELTING

Leather—List dated Nov. 12, 1901.
- Standard 75%
- Eclipse.....60&10%
- Extra Grade..... ... 50&10%

Rubber—
- Standard .....75&5%
- Amherst.....65&10%
- Extra.....60&2½%

BEVELS—TEE.

- Stanley's, rosewood handle, new list..... .....40&5%
- Stanley' iron handle.....40&5%

BINDING—OIL CLOTH.

- Zinc.....75, & 10%
- Brass 75%
- Brass Plated.....75 & 10%

BITS.

Auger.
- Extra Double Spur.....70&5%
- Ford Improved.....40&10%
- Irwin .....40&10%
- New Jenning's ..... 50&10%
- Russell Jenning's..... 25&7½%
- Clark's Expansive.....50, 10&5%
- Steer's " Small..... new list.....$22.00
- Irwin Car.....40&10%
- Snell's Car .....60&5%
- " Ship.....40&5%
- " " Auger Pattern Car..40&5%

Center .....40&10%

Countersink—
- Wheeler's .....per doz. $1 60
- American Snail Head " 0 70
- " Rose " " 0 80
- " Flat..... " 0 70
- Buck Bros'. Flat..... " 2 6
- German ..... " 0 70

Dowel, New Jennings.....40&10%

Gimlet—
- Standard Double Cut 50&5@50&10%
- German Pattern.....per doz. $0 48
- Gouge..... " 0 80
- Spoon..... " 0 80
- Countersink ..... " 1 30

Reamer—
- Buck Bros.' ½ Round. " 2 75
- " " Square.. " 2 50
- Standard ½ Round ... " 0 75
- " Square ..... " 0 75
- German Octagon... .. " 0 75

Screw Driver—
- Round Shank..... " 0 48
- " " extra quality " 1 40
- Square Shank..... " 1 10

BLACKING—STOVE. (See Polish.)

BLADES—SAW.

Butchers'—
- Standard ¾ & 1¼in .....60&5%
- Clock Spring.....60&5%
- Star.....20%

Hack—
- Disston's .....25&5%
- Griffin's .....35&5%
- Star..... 20%

Wood—
- Jackson's.....per doz. $2 25
- Disston's—No. 6, 16, 26 & 045, $4 20; No. 11, $6.30.
- W. M. & Co.'s No. 20..per doz. $5 50

BLOCKS.

Snatch—
- Wooden .....50&10%
- Steel.....40&10%

Tackle—
- Wooden.....70&5%
- Steel .....50, 10&5%

BOARDS.

Stove.....40&5%

Wash—
- Anchor ..... per doz. $1 60
- Globe..... " 2 10
- Banner..... " 2 60
- Crystal..... " 3 15
- Brass King ..... " 3 15
- Nickel Plate..... " 3 15
- Enamel King..... " 3 15

BOBS—PLUMB.

Carpenters', 8¾ oz. iron..pr dz. $0 65
- 1½ lb. " " " 1 60
- 2¾ lb. " " " 1 80
- 13 oz. lead.... " 3 00
- 6½ oz. brass. " 3 30

Mason's, 3 lb. lead ..... " 4 00

BOILERS—FARM.

- Profit.....30&5%
- Solon .....35&5%

BOLTS.

Carriage, Machine, Etc.
- Carriage, Common, new list.....65%
- Machine.....65&5%
- Elevator..... .....50&10%
- Plow.....50&5%
- Stove .....75&10%
- Tire.....75%
- Wagon Box Strap.....70&10%

Mortise Door—
- Gem .....50-10&5%
- Ives'.....50&10%

Barrel—
- Cast 50%
- Wrought.....75%
- " Bronzed.....40%

Flush, Wrought, B. K.....40&5%

Spring—
- Wrought.....75&10%
- " Brass .....75&10%

Square—
- Cast.....40%
- Wrought .....60-10&10%

BORERS.

Angular, Miller's Falls, per doz $12 75

Bung, Common Ring with Handle—
- Inches..... 1½ 1¾ 2
- Per doz $6 00 6 90 8 10
- Enterprise Mfg. Co., No. 1 List $1.50; No. 2. $2.00 each....25-10&5%

BOXES.

Mail, No..... 5 10 20
- Per doz.....$3 65 10 50 13 00

Mitre—
- New Langdon.....15&5%
- Olmsted's 15%
- Stanley's.....30%
- Seavey's .....per doz $18 00

Twine, Nos.... 20 30 25 121
- Per doz $1 7 50

BRACES.
Common Ball.....$1 35@1 45
Barbers' Pattern.....60&10%
Fray's Gen. Spofford's.....50&10%
" No. 66 to 146.....50&10%
P. S. & W. Co.'s Peck's Adjustable.....50-10&5%

BRACKETS.
Hay-Rack, Wenzelmann's No. 1, $12.50; No. 2, $13.00 per doz.
Shelf—
Cast Iron, Plain.....50&10%
Stanley's Wrought Steel.....70-10&2½%
Wire.....75-10&5%

BROILERS.
Wire.....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.
Pump Rubber—
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion..... " 7 50
Victor..... " 9 50
Star..... " 5 00
IXL..... " 6 75
Well—
Galv'd Qts..... 8 10 12
Per doz.....$2 60 3 00 3 30
Wooden, top ear, plain, per doz 3 25
" " swivel " 4 65
" side-strap, plain " 3 35
" " swivel " 4 75

BUCKS, SAW.
Folding.....per doz $1 75

BURS, RIVETING.
Copper Burs Only.....35-10&5%
Tinners' Iron Burs Only.....70%

BUTTS.
Cast-Iron.....65&10%
Wrought Brass.....20%
Wrought Steel Bright—
Nos. 800, 804, 808, 810, 814 and 834.....70-10&5%
Nos. 838, 840 and 842.....75&5%
Nos. 822 and 823.....80-10&5%
Wrought Steel, Japanned—
Nos. 731 and 727.....70&10&5%

CALIPERS.
Double.....40&10%
Inside and Outside.....40&10%
Wing.....40&5%

CALKS.
Logger's Boot, (Lufkin R. Co's.).....per M $3 65
Toe.
Shoenberger.....per lb. 5c
Bessemer..... " 5½c
American..... " 7¼c
Swedes..... " 8¾c

CANS.
Cheese Factory Can Stock—
Gallons.... 15 20 30 40
Per set....$2 90 $3 15 $3 75 $4 75
Milk Cans—Gals.. 5 8 10
Elgin Pat., each. $ $1 75 $2 10
Iowa " 1 60 1 70 1 85
New Elgin" 1 65 1 85
New York" 2 10 2 35
Oil—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals..... 1 2 3
Per doz..... $1 85 $3 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket.....50-10&5%

CAPS—GUN.
See Ammunition.

CARRIERS.
Hay—
Myers' Imperial.....each $3 40
" Clover Leaf..... " 3 40

CARTRIDGES.
See Ammunition.

CASTERS.
Acme—Ball Bearing.....35%
Bed.....70&5%
Common Plate—
Brass wheel.....65&10%
Iron and porcelain wheel.....70&5%
Philadelphia Plate.....70&5%
Martin's.....40-10&5%
Payson's.....75%
Tucker's—Wood and iron wheel..70%
" Rubber wheel.....65&10%

CATCHERS—GRASS
ieder's No. 1.....per doz. $6 25
Eureka..... " 4 25
Ideal No. 4..... 50

CHAIN AND CHAINS.
Breast Chains—
Doubleslack.....doz. pairs $5 00
With Covert snaps " 4 75
" slide..... " 2 90
Without slide..... " 2 60
Bright Ox Chains—
5-16in. $6 75; ⅜in. $5 75 per 100 lbs.
Bright Coil Chain—
American, new list.....40%
German.....60-10&5
Triumph, new list.....30%
Cable Coil Chain—
Inch..... 3-16 ¼ 5-16 ⅜
Per 100 lbs...$9 75 $7 25 $5 90 $4 75
Inch..... 7-16 ½ ⅝ ¾
Per 100 lbs...$4 60 $4 50 $4 35 $4 25
Cable Log Chain—Advance 25c per 100 lbs. on Cable Coil.
Cow Tie Chains—
American 2 toggle.....40-10 & 5%
" toggle and snap, 40-10&5%
" open and closed ring.....40&5%

Halter Chains—
American, new list.....40%
German.....60-10&5%
Niagara, new list.....40&5
Triumph, ".....30%
Jack Chain—
Brass.....50-10&5%
Iron.....50-10&5%
Picture Chains—
Light Brass, 3 ft.....per doz. 63c
Heavy " 3 "..... " 75c
Pump Chain—Galvanized per 100 lbs.....$4 45
Safety Chain—Brass.....60&10%
Stretcher Chains—
5-16 in., $7.75—⅜in., $7.00 per 100 lbs.
Tie-Out Chains—Browns.....70&10%
Trace Chains—Western Standard—
6½—6-2.....per pair 30c
6½—8-2..... " 34c
6½—8-3..... " 33c
6¾—10-2..... " 39c
7 —10-2..... " 44c
Add 3c per pair for Hooks.
" 2c " for Twist Link.
Wagon Stay Chains—
Inch ¼ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.25
Well Chains—
With Swivel.....per doz. 95c
Without "..... " 80c

CHALK-CARPENTERS'.
Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l Crayon..... " 5½c
D. M. Steward Mfg. Co. (Case lots 20%)
Metal Workers' Crayons.....gr. $2.50
Soapstone Pencils, round flat or square.....gr. $1.50
Rolling Mill Crayons.gr. $2.50
Railroad Crayons (composition) gr. $2.00

CHARCOAL.
In barrels.....per bu. 23c

CHECKS-DOOR.
Blount.....30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia.....50, 10&5%

CHISELS.
Box—
Inches..... 10 12 14
Round...per doz. $2.10 $2.25 $2.75
Flat.....per doz. 2.85 3.60 4.20
Cold—
Good quality.....per lb. 12@ 20c
U.S.A., extra quality..per lb. 28c
Socket, Framing and Firmer—
Barton's..... 20%
P. S. & W. Co's..... 70%
For beveled back, add..per doz..... 60c
Tanged, Firmer—
P. S. & W. Co's.....35&5%
With Handles add... per doz. 60c

CHUCKS-DRILL.
Standard Tool Co.'s.....40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6.25
Yankee, for Yankee Screw Drivers..... 5.00

CHURNS.
Anti-Bent Wood, Gal.. 5 7 10
Each..... $3.85 4.10 4.30
Belle, Barrel..... 70%
Common Dash, Gal.... 4 5 7
Per doz..... $6.50 7.25 7.75
Union, Gal..... 5 7 10
Each..... $3.40 3.65 4.65

CLAMPS
Adjustable—Martin's..... 40%
Carpenters'—Steel Bar..... 30%
Carriage Makers'—P. S. & W. Co.'s.....40, 10&5%
Hose—
Sherman's, brass, ⅜ in.,.....per doz. 33c
Double, brass, ⅜ in...per doz. 65c
Saw Filers—
Disston's list, $30 00..... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's..... 40%

CLAWS-TACK.
Cast, wood hdle..per doz., 45@ 60c
Forged steel, wood handle.....per doz. 80c
Solid Steel.....per doz. $1.60
Giant.....per doz. .60

CLEANERS.
Pot—Wire.....per doz $0.45
Side-Walk—Steel..... per doz. 3.15
Window—
Peerless.....50, 10&5%
XLCR.....65&10%

CLEAVERS.
Butchers'—F. R. Plumb's.....35&5%
Family—Ajax, In..... 6 7 8
Per doz..... $5 50 5 75 6.25

CLEVISES.
Malleable.....per lb. 4¼c

CLIPS.
Axle.....65&5%
Damper—
Standard.....per doz. $0.55
Troy..... " .38
Hame..... " .20

CLOTH.
Emery—
Ajax.....50&10%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " " 2.15
2 to 8 " galv. " " 2.70
7 and 8 " " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.
Screen Wire—
12 mesh, painted, per 100 sq.ft. $1.10
14 " " " " 1.85

COCKS--BRASS.
Compression Bibb.....60&5%
" Lock.....60%
Lever Bibb.....60%
Liquor.....60%
Racking.....60%

COFFEE MILLS.
Enter. Mfg. Co., list Jan 17, '93...25%
Parker's.....50%
Arcade.....60&10%

COLLARS--STOVE PIPE.
Inches 5 6 7
Plain Tin....per gr. $2.50 $2.80 $3 75
Japanned Tin, " 3.90 4.20 5.40
Lacquered Brass" 3.30 3.60 4.80

COMBS--CURRY.
Nos. 000 20 321 330 417 416
Per doz. $0.32 .80 1.00 .95 .80 1.00
Nos. 531 533 530 535 545 390
Per doz $0.96 1.20 1.10 1.65 1.40 1.30

COMPASSES.
Carpenter's.....65&10%
Pencil—Faber's.....per doz. $1.00

COOLERS--WATER.
Galvanized Lined—Lever Faucet.
Gal. 2 3 4 6 8
Each $1.35 1.65 2.00 2.35 2.95
Galvanized Lined—Telegraph Faucet
Gal. 2 3 4 6 8 10 15
Ea $1.65 2.00 2.35 2.65 3.30 3.65 4.90
Porcelain Lined—
Gal. 3 4 5 6 7 8 10
Ea $4.50 5.75 7.00 7.75 8.60 10.40 12.25

COPPER—See Metals.

COPPERS.
Soldering—1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.
Picture—White Wire—List October 1900.....80&10%
Sash—
Baltic Braided Flax...per lb. 18½c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot " 30½c
Silver Lake, white " 24½c
" " drab " 31½c

CORKSCREWS.
Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS--SPRING.
Discount.....75&5%

COUPLINGS--HOSE.
Brass.....per doz. $1.00
Brass Plated..... " 85

COVERS, WAGON--See Tents.

CRADLES--GRAIN.
Morgan's Grapevine..per doz. $22.00

CRAYONS--See Chalk.

CROOKS--SHEPHERDS'.
American Pattern.....per doz. $6 75
Montana " " 8 00
Scotland " " 8 00

CROW BARS.
Pinch or Wedge Point....per lb. 3½c

CUTTERS.
Meat—
Enterprise Nos. 5, 10, 12, 22, 32, and 42.....25%
No. 100, list, $18.00.....40&10%
Nos. 2 and 4.....35%
Ideal.....per doz. $9.75
Universal....No. 1 2 3
Per doz.....$10.75 $13.00 $18.00
Pipe—Stanwoods No. 1 2 3
Each.....$ .85 1.50 4.00
Slaw and Crout—
3-knife Crout.....per doz. $9.25
1 " Slaw..... " 1.35
2 " "..... " 2.00
Washer..... " 7.75

DAMPERS--STOVE PIPE.
Standard.....50&10%
American.....50&5%

DIES--STOCKS AND
Discount.....40%

DIGGERS--POST HOLE.
Atlas.....per doz. $8.50
Eagle..... " 6.25
Eureka..... " 7.00
Hercules..... " 10.75
Ryan's..... " 16.50
See also Augers—Post Hole.

DIVIDERS.
Wing.....70&5%
Extension Wing.....35&5%

DOORS--SCREEN.
⅞ in. 4 panel painted per doz. $ 6.75
1⅛ " " " " 7.25
1⅛ " " natural pine, fancy, per doz..... 11.25

DOOR HANGERS—BARN.
No. 3. Superb.....per doz. sets, $6 50
No. 4. Superb..... " " 7 75
Single Flange, D. B. Rail,.....per 100 ft. 1 60
Novelty Check Back,..... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.95 $6.25

DRILLS.
Bit Stock.....60%@65&5%
Blacksmith's Twist.....60%
Breast—
Common.....each, $2.25
Millers' Falls..... " 2.10
Hand—
Goodell's Automatic—per doz.
No. 01 No. 03 No. 3 No. 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " " 12.50
" " Double " " 15.00
Reciprocating—
Goodells'.....per doz. $17 00
Bit Stock.
Standard List....60&5%@60%@10%

DRIVERS--SCREW.
Standard.....65&10%
Ajax.....70&5%
Champion.....50%
" Pattern.....75&5%
Clark's Interchangeable.....33⅓%
Reed's Lightning.....50%
Goodell's Spiral.....50&10&5%
Yankee Ratchet.....50%
" " Spiral.....50&10&5%

ELBOWS.
Conductor.....60%
Adjustable Stove—In. 5 6 7
Smooth....per doz. $0.98 0.98 1.40
Plan'd..... " 2.35 2.35 3.15
Corrugated Stove—In. 5 6 7
Smooth.....per doz. $0.98 .98 1.40
Pol'd..... " 1.75 1.75 2.70
Plan'd..... " 2 60 2.60 3.60
Four-Piece Stove—In. 5 6 7
Smooth....per doz. $0.63 .63 1.00
Pol'd..... " 1.15 1.15 1.60
Plan'd..... " 1.80 1.80 2.60
"O.H." Corrugated—In. 5 6 7
Common...per doz. 1.02 $1.20 $1,75
Smooth..... " 1.25 1.45 2.10
Polished..... " 2.10 2.50 3.15
Planished..... " 2.90 3.50 4.35

EMERY--TURKISH.
Size.....5-lb. pkgs. ½ kegs, kegs.
No. 60 to 150, $ lb. 6¼c 4¾c 4½c
Flour..... " 5¼c 3¾c 3½c

ENAMEL—IRON.
English, ½-pt. cans...per doz. $1.50
Nubian, " " " 1.80
O. V. B., " " " 1.25
Peerless..... 1 50

EXTRACTORS--PIG.
See Forceps, Pig.

EYES.
Bright Wire Screw—See Goods, B.W.
Drifting Pick.....60&10%
Hooks and—
Brass.....60&5%
Iron.....65&10%

FASTENERS, STORM SASH.
Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FASTENERS, BLIND.
Zimmerman's.....Net

FAUCETS.
Angle Plug.....per doz. $0 84
Brass—Andrew's.....60%
Petroleum.....60%
Wood—Cedar.....40&50%
Cork Lined.....60%
Metal Key.....65&5%
Measuring—Enterprise.....35&5%
See also Cocks.

FILES AND RASPS
Arcade.....75&5%
Black Diamond.....70&10%
Disston's.....75&5%
Great Western.....75&5%
Keystone Mill.....80&20%
Kearney & Foote.....75&5%
New American.....75&10&5%
Nicholson's.....70&10%
Royal Mill.....80@20%
N. S. A.....70&10&5%

FORCEPS—PIG
Barber's.....per doz., $7 25
Superior..... " 4 75
Whisson's Imp..... " 6 00

FORKS
Barley—
Steel.....66⅔, 10&5%
Wood, 4 tines, $5.25; 6 tines, $6.25 doz
Coal.....70, 10&2½%
Coke.....70, 10&2½%
Cottonseed.....70, 10&2½%
Hay—
Diamond, 2 tine.....65, 10&5%
" 3 ".....60, 7½, 10&5%
" 4 ".....66⅔, 10&5%
Golden Eagle, tine 60,7½,10,10&5%
" " "..66⅔,10,10&5%
Header—
Diamond, 2 tine.....67½&10&5%
" 3 ".....60, 20, 10&5%
" 4 ".....66⅔&10&5%
Golden Eagle, 4 tine.....10&10&5%
Manure—
Diamond.....60, 20, 10&5%
Golden Eagle.....60, 20, 20&5%
Ore.....70&10%

FORKS—CONTINUED.

Potato—
Digging.... 65&10&5%
Scoop .... 70&10%
Spading—
Diamond .... 70, 5, 10&5%
Golden Eagle.... 70, 5, 10, 10&5%

FRAMES

Hack Saw—
Crown.... per doz., $8 75
Miller's Falls .... " 10 00
Star .... " 2 85

FREEZERS—ICE CREAM

Arctic—Qts... 1 2 3 4 6
Each $1 10 1 30 1 50 1 75 2 30
Qts 8 10 12 15
Each $2 85 3 75 4 50 5 20
White Mountain, with Crank—
Qts 1 2 3 4 6
Each $1 20 1 65 1 90 2 10 2 70
Qts 8 10 12 15
Each $3 60 4 60 5 90 7 00

GATES.

Molasses and Oil.
Perfection .... 40&10&5%
Stebbin's .... 75&10&5%

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s .. 20&10&2½%
Cream Pail, Fairmont, per doz.. $3 75
Marking, Mortise, etc. .... 50&10%@50&10&5%
Saw—Atkin's sgle. 55c, dbl. 80c pr doz.
Wire.
Disston's 25%
P. S. & W. Co.'s 20%

GIMLETS.

Discount .... 40@40&10%

GLASS—WINDOW.

All sizes, single strength 89%
" double strength 89%

GLASSES—LEVEL.

Stanley R. & L. Co. .... 50&5%

GLUE

Bulk.
B Amber .... per lb 9¾c
A White .... per lb 12½c
H. S. Amber .... per lb 17 c
Liquid.
Eagle .... 40 %
LePage's—
List "A" 37½%
List "B" 33⅓%
List "C" .... 25 %

GOODS.

Bright Wire .... 85&5%

GREASE, AXLE.

Wood Boxes.
Diamond .... per gr. $5.40
Frazer's 9.25
Hub Lightning 5.25
Paragon 6.75
Wood Pails.
Frazer's, 15 lb. 78c, 25 lb. $1.30 each.
Hub Lightning, 15 lb. 52c, 25 lb. 68c each.
Tin Cans.
1 lb. Frazer's carriage, pr. doz. $1.30
1½ lb. " wagon . " 1.30
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

Soapstone .... 40&5%

GRINDSTONES

Family—In. 7 8 9
Per doz $7 75 8 75 10 00
Loose.
Per ton .... $20 00@$21 00
Mounted—
Ball Bearing 1 2 3
Each $3 10 2 90 2 75
Common Bearing.. 1 2 3
Each $2 85 2 65 2 50
Schofield's—
Auto .... each, $3 30
Bitreadle .... " 3 10

HAFTS—AWL

Brad—Common .... per doz., $0.18
Peg—
Common .... " 21
Patent, plain top .... " 46
" leather top .. " 52
Sewing—
Common .... " 21
Patent .... " 52

HALTERS

Jute Rope .... per doz., $0 80
Sisal Rope ... " 1 95
Web .... " 2 10
Leather, rope tie .... " 6 25
" leather tie ... " 8 25

HAMMERS—HANDLED

Blacksmiths' Hand
Maydole's .... 40&10%
Plumb's .... 50&10&5%
Engineers'—
Maydole's .... 40&10%
Plumb's Oil Finish 60%
" Polished .... 50&10&5%
Farriers'.
Maydole's .... 35&5%
Plumb's .... 40&5%
Machinists'.
Maydole's .... 40&10%
Plumb's .... 50&10&5%
Nail.
Ajax .... per doz $5 75
Calumet .... " 3 40
Cast .... per doz $1 10@$1 50
Maydole's .... 30&7½%
Plumb's .... 40&5%
Vulcan .... 35&5%
Riveting.
Maydole's .... 35&5%
Plumb's .... 40&5%
Shoe. Plumb's .... 30&5%
Tack.
All Iron .... per doz $0 32
Pol'd Iron, Hickory hdl " 0 48
Mall. Iron, Inlaid .... " 1 50
Magnetic 1 2 3
Per doz 70c 80c 95c
Magazine .... per doz $4 75

HAMMERS—HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .... 70&10%
5 lbs. and over 75%
Masons'—Single & Double Face..75%

HANDLES.

Auger.
Common Ass'd .... per doz $0 36
Peck's Adjustable .... " 2 10
Roger's " .... " 4 15
Ives' " .... per set 1 25
Axe .... 40&5@50%
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .... per doz 24c
Coal Pick .... 40&10%
Drifting Pick .... 40&10&5%
File, assorted 13c. large 16c per doz.
Hammer.
Adze Eye .... per doz 35c
Blacksmiths' .... per doz 36c@55c
Machinists' .... " 38c@60c
Hatchet .... per doz 36c
Hay and Manure Fork .... 50&5%@60%
Hoe and Rake .... 50&5%
Saw, Plain 72c, Varnished 68c per dz.
Screw Driver, Assorted 42c, Large 48c per doz.
Shovel and Spade .... 50&5%

HANGERS

Barn Door—
Rival .... per doz. prs., $3 90
Superb .... " 6 25
Safety Flexible. " 7 50
Prouty .... " 5 50
King .... " 5 00
Eave Trough—
Baker's .... per gr., $2 35
Imperial 10%
Wire 25%
Parlor Door—
Acme .... per set $3 75
Ives' Improved .... " 2 50
Lane's Standard .... " 3 50
" New Model .... " 2 80
Prouty .... " 3 00
Wilcox Trolley .... " 3 75

HASPS.

Hinge, Wrought .... 50, 25&10%
With Staples—See Staples.

HATCHETS.

Ajax .... 40&10&5%
Blood's .... 40&10%
Cast Claw .... per doz $1 50@$1 75
Cast Shingling .... " 1 20
Duffy's Barrel .... per doz 17 50
Germantown .... 35&5%
Hammond's 40%
Plumb's .... 40&10&5%
Plumb's Warehouse 40%
Roger's Ideal .... per doz $5 25
Underhill's Star Lath 40%
S. A .... 30&10%

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz... $12 60
" No. 2, " ... 13 20

HINGES.

Blind.
Clark's Gravity, 1 2 3
Per doz sets 74c $1 80 $3 50
Parker's 70%
Shepherd's Noiseless, for Wood casing .... doz 95c
Stanley's Wrought.. per dz sets 84c
Gate.
Clark's, 1 2 3
Hgs & Ltchs, dz.. $2 20 $2 35 $3 60
Hinges Only, " .. 1 60 1 70
Latchs Only, " .. 0 65 0 70
Knuckle .... per doz prs $6 25
Leed's .... " sets 6 50
Superior .... " prs 9 25
Spring.
American 25%
Bommer Bros. Ball B'rng Floor 40%
Bommer Bros. Spring Hinges .40%
Chicago .... 25&5%
Clover Leaf .... per gro $8 75
Columbia Dbl. Acting .... 40&10&5%
Gem 25%
Ideal Detachable, ... per gro $10 80
New Idea .... " 8 75
Oxford 20%
Wrought Iron.
Light Strap Hinges .... 70&25&10%
Heavy Strap Hinges. 75, 10, 25 & 10%
Light T Hinges .... 66⅔, 25 & 10%
Heavy T Hinges .. 60, 5, 25 & 10%
Extra Heavy T Hinges 75, 25 & 10%
Cor. Heavy Strap .... 75, 10, 25 &10%
Cor. Ex. Heavy T .... 75, 25 & 10%
Screw Hook and Strap.
6 to 12in .... per 100 lbs. $3.75
14 to 20in .... " " 3.50
22 to 36in .... " " 3.25
Screw Hook and Eye.
¾ to 1in .... per 100 lbs. $6.50
⅝in .... " " 8.00
½in .... " " 10.00

HOES.

Garden .... 75&10&5%
Grub .... 65&5%
Hazel .... per doz $6 25
Ladies' and Boys' .... 70, 10, 5, 10&5%
Mortar .... 75, 7½, 10&5%
Planter's Eye .... 60&10&2½%
Weed .... 70, 10, 10&5½%

HOOKS.

And Eyes.
Brass .... 50&10&5%
Iron .... 65&10%
Awning .... per gro $1 50
Belt .... 75&5%
Bench—See Stops, Bench.
Box, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Humason & Beckley's ... pr dz $2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle .... per doz $7 00@$8 50
Hamilton Pattern .... per doz $7 25
Chain—In. ¼&5-16 ⅜ 7-16 ½
Per 100.. $8 25 $9 75 $11 50 $12 00
Clothes Line.
Japanned .... per doz 21c@22c
Galvanized .... " 35c
Coat and Hat.
Cast Iron .... per gro 72c@$1 00
Gem Wire 65%
Conductor.
Malleable .... 50&10%@50&10&5%
Wrought .... 40&10%@50%
Corn.
Common, unpolished, per doz. $1 30
" polished ... " 1 60
"Cut Easy," serrated, per doz. 2 90
Gate.—See Goods, Bright Wire.
Grass.
Common, Nos. 2 3 4
Per doz $1 60 $1 65 $1 70
German .... per doz $1 85
Little Giant .... " 3 10
Wood's .... " 1 30
Hammock.
Common .... " 21c
With Plate .... " 36c
With Screw .... " 36c
Piggot's .... " $1 05
Lambrequin or Drapery ... per gro 21c
Picture .... 50%@50&10%
Potato and Manure .... 70&10&7½%
Screw, Brass .... 80&5%
(See Goods, Bright Wire.)
Seat Spring .... per lb 5½c

HOOPS—TUB.

Ever Ready .... per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
Black, pr ft. 7½c 8½c 9½c 10¾c 11¾c
Cotton, 3 ply .... per ft 6¾c
Red, 3 ply .... " 7½c
Yucatan Endless ... per ft 11¼c@12¼c

HUSKERS.

Boss.
Nos. E A B P PX
Dz. $1 85 $2 00 $1 95 Gr. $5 90 $5 40
Nos. 2000 3000 4000 O OX
Gr. $3 10 $6 75 Dz. $1 15 $2 25 $1 75
Brinkerhoff's .... per gro 14 50
Common Sense .... per doz 1 60
Harrington .... per gro 4 50
Ideal—Nos. 102 101 100
Per doz $1 60 $3 00 $3 15
Johnson's .... per gro 7 75
Tyler's .... " 8 40
Vaughan's .... " 2 20

IRON.

See Metals—First column.

IRONS.

Curling.
Common .... per doz 33c@48c
Princess .... per doz $0 60
Yale .... " 0 84
Oxford .... " 1 10
Ruby .... " 1 50
Tourist, Folding .... " 0 90
Pinking .... " 0 60
Plane.
Wood Bench .... 20&5%
Stanley R. & L. Co. (new list) 25&5%
Sad.
Charcoal .... per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing .... per doz 7 25
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise ... per set 77c
No. 55 J, " ... " 74c
No. 50 T, " ... " 80c
No. 55 T. " ... " 77c
No. 50, Howells .... " 77c
No. 55, " .... " 74c
Tailors' Sad .... per lb 4¼c
" Geese .... " 4¼c
Tuyere.
Single Duck Nest .... per doz $5 25
Double " " .... " 6 25
Sutton .... each 2 60

JACKS.

Locomotive .... 75&5%
Wagon.
Meeker's .... per doz $11 25
Miller's No. 2 .... " 7 75
T., M. & S .... " 9 00
Winner .... " 7 75

KETTLES.

Brass 20%
Caldron 50%
Copper .... per lb 26c
Maslin .... 65&10%
Sugar .... 50&10&5%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade. dz $4 25
" 12-in. Straight " .dz 2 50
Cooper's Hoop 15%
Corn.
Acorn .... per doz $2 10
Ajax .... " 2 25
Clipper, Light, $1 60; Heavy, $1 75 per doz.
Disston's .... per doz $2 85
Easy (attached to foot) " 7 75
Greenleaf's .... " 3 60
Drawing.
Standard 70%
Adjustable 20%
Barton's Carpenters' .... 10&5%
" Folding Handle .... 25&5%
Hay.
American, Sickle Edge ... doz $10 25
Canton, Sickle Edge .... " 8 25
Heath's .... " 8 25
Lightn'g, Holt's Genuine " 5 75
Lightning Pattern .... " 5 50
Wadsworth's Sp'r Point. " 8 25
Hedge.
Ajax, Heavy, $5 75; Ex. Heavy, $7 75 per doz.
Mincing.
Common, Single .... per doz 48c
" Double .... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
Putty.
Common .... per doz 84c
Goodell's .... per doz $1 30@$1 80
Russell's .... " 1 75@ 2 25

KNOBS.

Base, 2¼-in. Maple, Rubber Tip, ... per gro $1 60
Door, Mineral .... per doz 0 80
Porcelain .... " 0 90
Jet .... " 0 88
Picture .... 60&10&5%

LADDERS.

Common Long .... per ft 8½c@13c
Extension .... per ft 10½c
Step.
Common .... " 6c
" With Shelf, add 10c.
I X L .... per ft 19c
Miller's Household. per ft 13c@15c

LANTERNS.

Bull's Eye Police.
3-in Flash Light .... per doz $6 00
2½-in Regular .... " 4 00
3-in Regular .... " 5 00
Tubular, Berger .... 40&10&5%

LEADERS—CATTLE.

Nos. 1 2 3
Per doz ... $0 79 $0 85 $3 75

LEATHER—LACE.

Cut .... 50&5%
Sides, Ex. Quality .... per sq ft 21c

LEATHERS—PUMP.

Valve and Plunger 50%

LIFTERS.

Stove Cover.
Japanned .... per gro $2 75
Coppered .... " 3 60
Alaska .... " 7 50
Chilkoot .... " 4 75
Devore's .... " 5 50
Zero .... " 3 90
Transom, Payson's .... 70&10%

LINES.

Chalk, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 20c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz 24c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz 23c 26c 32c
Masons', in 100-ft hanks ... doz $1 00
Clothes.
60-ft Jute .... per doz $0 90
72-ft " .... " 1 00
60-ft Sisal .... " 1 50
72-ft " .... " 2 00
60-ft Cotton .... " 1 25
50-ft Braided Cotton ... " 0 84

LINING—STOVE.

In Bricks .... per crate 42c

MACHINES.

Boring — Without Augers. — With Augers.
Ajax .... per doz $5 25 $6 75
Angular ... " 3 25 5 00
Boss .... " 4 50 5
Upright ... " 2 90 4
Leather Riveting.
Chicago, Pomeroy .... per doz $9 75
Excelsior .... " 2 50
Handy .... " 2 10
Little Giant .... " 3 10
Pony, Pomeroy .... " 8 00
Washing.
Boss. 1 2 5 3
Per doz.. $54 00 $60 00 $66 00 $66 00
Globe, No. 1 .... per doz $51 00
Horton Rotary .... " 54 00
O K Rotary .... " 58 00
Round Wayne .... " 26 50
U. S. Steel .... " 60 00
Western Square, No. 2, $26 50; No 3, $28 50 per doz.

MALLETS.

Carpenters'.
Fibre Head, Small. Med. Large.
Per doz $5 00 $5 75 $6 75
Round Hickory .... per doz $1 75
" Lignumvitæ .... " 2 75
Square Hickory .... " 1 75
" Lignumvitæ .. " 3 25
Tinners'.
Applewood .... " 1 65
Hickory .... " 0 80
Hickory Sheet Iron .... " 0 95

Door. MATS.
National Rigid ..... 60&5%
Queen Flexible 50%
Stove.
Augite Asbestos ..... per doz $0 25
Crown " ..... " 0 30
Wire Covered Asbestos, Ex.
Heavy ..... per doz 1 00

MATTOCKS.
Extra ..... 65&5%
Hunt's ..... 40&5%

MAULS.
Post.
Iron, lbs. 10 13 16 18 20
Per doz. $3 15 $3 85 $5 00 5 20 $5 80
Wood face, lbs. 10 11 12
Per doz $4 75 $5 00 $5 25
Wood Choppers'.
Lake Super'r & Oregon Pat. 70&10%

MEASURES.
½ pk 1 pk ½ bu
Galvanized.. per dz $3 75
Japanned.... " $1 60 2 35 $3 10
Iron Bound. " 1 40 1 70 2 00

METAL.
Babbitt.
Alm ..... per lb 8¾c
Best ..... " 23c
Common, No. 4 ..... " 6½c
Copper Mixed ..... " 18½c
Magnolia Metal ..... " 19c
Tony ..... " 10¼c
See Metals—In first column.

MICA.
First Quality ..... 40, 10&5%
Second Quality 60%

MILLS—COFFEE.
Enterprise ..... 25&5%
National 30%
Parker ..... 50&10%@60%

MOPS.
Erie ..... per doz $3 15
Handled Cotton.
Lbs. ¾ 1 1¼ 2
Per doz.. $1 65 $2 10 $2 25 $2 95

MOWERS—LAWN.
Ball-Bearing.
In. 15 17 19 21
Each $7 00 $7 60 $8 25 $8 90
Champion.
In. 12 14 16 18 20
Ea.. $2 10 $2 15 $2 15 $2 20 $2 35
Champion, High Chief.
In. 16 18 20
Each $3 40 $3 70 $4 00
Cheap Grades.
In. 12 14 16 18
Each $1 90 $1 95 $1 95 $2 10
Clipper ..... 50&10&10%
Girard, in. 14 16
Each $2 60 $2 80
Philadelphia.
All Styles Except A & E ..... 70&5%
Style A ..... 60&5%
Style E, High Wheel ..... 70, 10&5%
Drevels 50%
All Day ..... Net Price

MUZZLES.
Horse.
Nos. 1 2 3 4 5
Doz. $0 30 $0 50 $0 55 $0 70 $1 00

NAILS.
Horse Shoe.
Ausable 50%
Capewell 10%
Perfect ..... 40&5%
Putnam $3½%
Star 35%
Picture.
Brass Head ..... 40&10%
Judd's ..... 40&10%
Brads ..... 60&10&10%
Wire Nails—Small lots $2.15
Car load lots 1.95

NETTING—POULTRY.
Galvanized Before Weaving. 80&20
" After Weaving.. 80&15
Cut Pieces ..... 65&5%

NIPPERS.
End Cutting.
P. S. & W. Co. ..... 40&5%
Stubb's Pattern ..... 40&10&5%
Hoof.
Heller's ..... 40&5%
P. S. & W. Co. ..... 40&10%
V. & B 35%

NOZZLES.
Hose.
Genuine Boston ..... per doz $3 40
Genuine Gem ..... " 3 60
Magic ..... " 3 60

NUTS—HOT PRESSED.
Square Blank.
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
Lb. 9¼c 6¼c 4¾c 4¾c 4¼c 4c 3¾c
Square Tapped.
In. ¼ ⅜ ½ ⅝ ¾
Lb. 12¼c 10¾c 6¼c 5¼c 5¼c

OILS.
Linseed, Pure boiled ..... per gal 47c
" " raw ..... " 46c

OILERS.
Chase Pattern.
Brass and Copper ..... 35&5%
Zinc ..... 50&10&5%
Engineers'.
Cannon ..... 40&5%
Steel ..... 60&10&5%
Tin ..... per doz $2 5 @$3 00
Machine.
Ajax ..... per doz $0 80
Copper Plated Steel... " 1 50
Malleable Iron ..... 40&10&5%
Tin ..... per doz 50c@65c

OPENERS.
Box, in. 10 12 14
Flat ...per doz $2 85 $3 60 $4 15
Round.. " 2 10 2 25 2 70

Can.
American ..... per doz $0 26
Delmonico ..... " 1 50
Never Slip ..... " 0 68
Perfect ..... " 1 35
Tip Top ..... " 0 84
Crate, V. & B ..... " 5 75

OUTFITS—COBBLING.
Combination ..... per doz $11 50
Economical ..... " 4 80
Family ..... " 10 00

PADLOCKS.
Standard Wrought ..... 70&10&5%
Champion 50%
Eureka ..... 40&10&5%
Yale ..... 60&5%

PAILS.
Cream.
14-qt., Without Ga.... per doz $3 00
20-qt., " " .... " 3 50
20-qt., With Gauge .... " 5 00
Sap, 10-qt., Galvanized, $1 85; 12-qt., Galvanized, $2 20 per doz.
Stock, Galvanized.
Quarts. 14 16 18 20
Per doz... $3 75 $4 00 $4 65 $5 25
Water, Galvd, qts. 10 12 14
Per doz $2 00 $2 30 $2 60
Wood.
Cable, 2-Hoop, $1 70; 3-Hoop, $1 90 per doz.
Cedar, 3-Hoop, $2 50 per doz.
Standard, 2-Hoop, $1 55; 3-Hoop, $1 75 per doz.

PANS.
Dripping ..... 50&10&5%
Fry, Common ..... 60&10&5%
Acme ..... 60&5%
Roa-ting.
Brownie ..... Each 30c@37c
L. & H ..... " 58c@80c

PAPER.
Building.
Plain ..... per 100 lbs $1 10
Tarred ..... " 1 25
Tarred Felt ..... " 1 75
Diamond A, Red Rosin, pr roll 0 63
Leader, Red Rosin ..... " 0 48
Sand and Emery.
Ajax ..... 50&10%
B. & A 50%
Wrapping.
Grecian Express ..... per lb 3¾c
Rag ..... " 2c

PARERS.
Apple.
Bay State ..... per doz $13 00
Reading ..... " 6 75
Turntable ..... " 6 00
White Mountain ..... " 5 25
Potato.
Goodsell's Saratoga.. per doz. $6 50
White Mountain ..... " 6 00

PICKS
Drifting and Poll Picks ..... 60&10%
Extra Railroad ..... 65&5%
Surface ..... 65&5%

PINCHERS.
Carpenters', wrt. iron, pol. steel jaws 30%
Blacksmiths' 50%
P. S. & W. ..... 40&10&5%

PINS.
Clothes.
Common ..... per gr.. $0 12
Hoyt's ..... " .. 30
U. S ..... " .. 70
Picket.
Fluted ..... per doz.. $0 72
Round ..... " .. 1 55
Spiral ..... " .. 1 90

PIPE.

Conductor.	Nested	Not nested
Eastern	75&7½%	75&2½%
Central	75&2½%	70&12½%
Southwst'n .	65-10&10%	65-10&5%
Mo. River	75&2½%	80&2½%
Southern	70&7½%	75-10&5%

Lead.
Full coils ..... per lb.. $0 5¾
Cut " ..... " .. 06
Stove.

Acme—In.	5	6	7
Smooth, per jt.	11¼c	11¼c	13¾c
Planished, "	32c	33c	43c
Peerless—Smooth..	9¼c	9¼c	12c
Polished.	16c	18¼c	23c
Planished.	29c	31c	40c

Made-up—In.	5	6	7
Smooth	11¼c	11¼c	14¼c

7 to 6 in. Smooth Tapers, pr jt.. 15c
6 in, Smooth T's ..... " .. 30c
7 to 6 in. Planished Tapers 45c
Wrought Iron.
List March, 1900.
⅛ to ½ in., black ..... discount, 56%
⅜ to 12 " " ..... " 63%
⅛ to ½ " galvanized.. " 43%
⅜ to 12 " " ..... " 5%

PLANES.
Ohio ..... 60&5%
Stanley Planes, new list.. 30%@30&5%
Bailey Planes 35%
Sandusky 25%

PLANTERS.
Corn,
Impro elipse ...p z.. $7 75
Monitor ..... " .. 7 25
Triumph ..... " .. 5 75
Potato
Acme ..... per doz.. $5 75
Challenge ..... " . 10 75

PLATES—TIN.
See Metals in Column 1.

PLIERS.
Button's—In. 4½ 6 8 10
Per doz.... $2.60 $3.10 $3.90 $5.20
Button's Pattern.
In. 4½ 6 8 10
Per doz.... $2.35 $2.50 $3.45 $4.40

Cutting.
Cronk's Comb ..... per doz.. $6 25
Bernard's 30%
Lodi ..... 40&10&5%
Stubb's 50%
Fencing.
Cronk's ..... per doz.. $9 25
Farmers' Choice ..... " .. 8 75
Russell's ..... " .. 8 65
Flat and Round Nose.
Bernard's 30%
German 50%
Lodi 40%
Paragon ..... 40&10%
P. S. & W. Co. 60%
Gas—In. 8 10 12
Per doz $3.10 $4.00 $4.90

PLUMBS AND LEVELS.
Common ..... 75%@75&10%
Cook's 40%
Davis' Iron 30%
Davis' Inclinometer 20%
Stanley's

Nos.	00S	0S	2S	3S
Per doz..	$4.15	$4.60	$7.20	$7.90
Nos.	30	25	50	35
Per doz.	$12,90	$17.20	$17.20	$11.75

POINTS. Discount
Drive Well Points ..... 80&5%

POKERS—STOVE.
Wr't Iron, str't or bent, per doz. $0 50
Wr't Iron, wood hand'ls " 75
Nickel pl'td. coil hdl's.. " 70

POKES—ANIMAL.
American ..... per doz $2 60
Brown's wr't steel " .. $5 25@6 25
Eagle ..... " $4 25
Success ..... " 2 60

POLES—FISHING.
Bamboo.
Ft. 12 14 16 18 20
Pr 100.. $2.75 $3.40 $4.75 $6.00 $7.75

POLISH.
Metal.
Burnishine, ½ pt.... per doz.. $1 60
1 pt.... " .. 2 60
Pride of the Bar ..... " .. 1 60
Putz Cream.

Pts.	1-6	¾	⅛
Per doz.....	$0.84	$1.25	$1.80
Pts.	1	2	4	8
Per doz.	$3.60	$6.00	$9.00	$18.00

Wondershine

Pts.	1-6	½	1	2
Per doz...	$0.68	$1.30	$2.15	$3.00

Shoe.
M. D. C. ..... per doz.. 35c@50c
F. C. O ..... " 40c
T. M ..... " 50c@$1 25
Imperial ..... per gr $5 00
Stove.
Black Eagle, 1 lb cans, pr gr.. $15 00
Blackene, 1 lb cans ..... " .. 13 00
Black Jack, ¾ lb cans. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Enameline ..... " .. 4 75
Nickel Plate ..... " .. 4 50
Rising Sun ..... " .. 6 00

POPPERS, CORN.
Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt ..... per doz., $1 00
Square, 2 qt ..... per doz., 1 30
1 qt. reversible ..... per doz., 1 60

POTS—FIRE.
Bernz ..... each.. $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City ..... each.. 6 25
Gem ..... " .. 6 75

POWDER.
See Ammunition.

PRESSES—FRUIT AND JELLY.
Enterprise Manufacturing Co... 25%
Henis ..... per doz. $3 10

PRUNERS.
Disston's Pole ..... per doz.. $7 50
Henry's Improved.. per doz.. 65&10%
Water's Improved. " 75%

PULLERS.
Cork.
Modern ..... each.. $2 60
Quick and Easy ..... " .. 2 90
Nail.
Giant ..... per doz.. $9 00@10 50
Giant Pattern. " .. 6 00
Tack—Giant ..... " .. 60

PULLEYS.
Awning—Jap'd ..... 35&5%
Clothes Line 30%
Hay Fork.
Iron Wheel, 5 in ..... per doz.. $1 70
Wood Wheel, 6 in ..... " .. 1 60
Wood Wheel, 6 in... pass knot ..... " .. 1 75
Hot House—Jap'd 33⅓%
Screw ..... " 35%
Side ..... " 35%
Sash.
Chicago ..... per doz.. $0 29
Clark's ..... " .. 42
Common Sense, 2 in.. " .. 26
" Pattern, 2 in.. " .. 21
Empire ..... " .. 23
Ideal ..... " .. 21
Ottumwa ball b'ring " .. 38
Grand Rapids, No. 17 " .. 28
" " No 11 " .. 24

PUMPS
Pitcher Spout.
Nos. 1 2 3 4
Each $0.98 $1.10 $1.20 $1.45
Spray.
Blizzard ..... per doz.. $14 25
Cyclone, tin ..... " .. 3 90
" copper ..... " .. 6 75
Daisy ..... " .. 8 75
Little Giant ..... each.. 2 40

PUNCHES.
Conductors', No. 22 ..... per doz.. $2 50
Machine ..... per lb . 19

Saddlers'.
Common ..... per doz.. 60c@70c
Good ..... " .. 72c@84c
Spring.
1 Tube ..... per doz.. $2 25
4 Tube, revolving ..... " .. 5 25
Tinners'.
Hollow 40%
Solid ..... each.. 5½c

PUTTY.
In Bladders.
Strictly pure ..... per 100 lbs. $2 35
Commercial ..... " " 2 10

RAIL.
Barn Door.
Light Wrought .. .. per ft. 3c
Safety ..... " 5½c
Single Flange ..... " 1⅝c
Sliding Door.
Painted iron ..... per ft. 4½c
Bronzed wr't iron ..... " 8½c

RAKES.
Coal or Road ..... per doz. $5.25
Garden.
Steel, braced ..... 70&10&5%
Steel, bow ..... 70,5,10&5%
Malleable iron, heavy ..... 70@10%
Hay—Wood ..... per doz. $1 05@1 70
Lawn—Wood.
Common ..... per doz. $2
Automatic ..... " 6 00
New Lawn Queen .... " 3 60
Jumbo, 36 teeth ..... " 5 75

RASPS—See Files.

REGISTERS.
List Sept. 1, 1901.
Black Japanned, White Japanned, Bronzed Finishes, Nickel Plated, Electro Plated Brass, Bronze or Copper ..... 75&10%

RINGS
and Ringers—Hog.
Blair's Rings ..... per doz. 60c
Blair's Ringers ..... " 84c
Brown's Rings ..... " 65c
Brown's Ringers ..... " 90c
Champion Rings ..... " $2 35
Champion Ringers ..... " 1 70
Hill's Rings ..... " 42c
Hill's Ringers ..... " 70c@95c
Mazor Rings ..... " 80c
Mazor Ringers ..... " $1 15
Perfect Rings ..... " 84c
Perfect Ringers ..... " $1 05
Wolverine Rings ..... " 1 50
Wolverine Ringers .... " 70c
Bull.

Copper,	2¼-in.	3-in.
per doz	$1 35	$1 70
Steel ..... per doz.	95	1 05

Steel, Nickel Pl't'd, 2¼-in., doz. 1 35
Rea's Self Piercing.. ..... $1.95
Fruit Jar—White ..... per lb. 30c
Key.
Split, round ..... per doz. 16c
Split, square ..... " 32c
Ball, round ..... " 32c

RIVETS.
and Burrs.
Copper Belt ..... 50&10&5%
Coppered Iron 75%
Tinners' 75%
Hame ..... per lb. 8c
Slotted Clinch ..... per doz. 70c@75c
Tubular—Nos. 1 and 2, assorted sizes ..... per doz. 60c

ROPE.
Per lb.
Manila, 7-16 inch diameter and larger ..... 12c "
Sisal, 7-16 in. and larger.. 8½c "
Cotton.
¼ and 5-16-in. on reels... per lb. 12c
¾ and 5-16-in. in coils .. " 12½c

RULES.
Boxwood ..... 40%@40&10%
There is no regular discount on Boxwood Rules. They are now sold net.
Ivory ..... 35&5%

SASH WEIGHTS.
Per ton, f.o.b. Chicago ..... $ 0 00

SAWS.
Back.
Disston's ..... 35&5%
Jackson's ..... 35&5%
Butchers'—Disston's 40%
Circular.
Disston's 50%
Hiles' 50%
Compass.
Common ..... per doz. $1 25@1 60
Disston's ..... 25&5%
Cross-Cut.
Atkin's 40%
Disston's ..... 40&10% &50%
Pocahontas Bl't ..... per ft. 39c
Pocahontas, Blued ..... " 41c
Dehorning.
Atkins' ..... per doz. $5 50
Disston's ..... " 5 75
Hack.
Disston's 30%
Keystone 30%
Hand and Rip.
Brown's ..... 30&5%
Disston's No. 7 ..... 30&5%
Disston's Nos. 8, D8, 12, 76, D100, and 120 ..... 25&5%
Gorham's Comb ..... 30&5%
Keystone ..... 30&5%
Sam Sickles', hand... per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
"U. S. A." hand ..... " 12 25
"U. S. A." rip ..... " 14 25
Keyhole—Disston's ..... 25&5%
One Man 50%

FORKS—CONTINUED.

Potato—
Digging.....65&10&5%
Scoop.....70&10%
Spading—
Diamond.....70, 5, 10&5%
Golden Eagle.....70, 5, 10, 10&5%

FRAMES

Hack Saw—
Crown.....per doz., $ 8 75
Miller's Falls..... " 10 00
Star..... " 2 85

FREEZERS—ICE CREAM

Arctic—Qts... 1 2 3 4 6
Each.....$1 20 1 30 1 50 1 75 2 30
Qts..... 8 10 12 15
Each.....$2 85 3 75 4 50 5 20
White Mountain, with Crank—
Qts..... 1 2 3 4 6
Each.....$1 20 1 65 1 90 2 10 2 70
Qts..... 8 10 12 15
Each.....$3 60 4.60 5 90 7 00

GATES.

Molasses and Oil.
Perfection.....40&10&5%
Stebbin's.....75&10&5%

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s..20&10&2½%
Cream Pail, Fairmont, per doz..$3 75
Marking, Mortise, etc......
.....50&10%@50&10&5%
Saw—Atkin's sgle. 55c, dbl. 80c pr doz.
Wire.
Disston's.....25%
P. S. & W. Co.'s.....20%

GIMLETS.

Discount.....40@40&10%

GLASS—WINDOW.

All sizes, single strength.....80%
" double strength.....80%

GLASSES—LEVEL.

Stanley R. & L. Co.....50&5%

GLUE

Bulk.
B Amber.....per lb 9¾c
A White.....per lb 12½c
H. S. Amber.....per lb 17 c
Liquid.
Eagle.....40 %
LePage's—
List "A".....37½%
List "B".....33⅓%
List "C".....25 %

GOODS.

Bright Wire.....85&5%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gr. $5.40
Frazer's..... 9.25
Hub Lightning..... 5.25
Paragon..... 6.75
Wood Pails.
Frazer's, 15 lb. 78c, 25 lb. $1.30 each.
Hub Lightning, 15 lb. 52c, 25 lb. 68c each.
Tin Cans.
1 lb. Frazer's carriage, pr. doz. $1.30
1½ lb. " wagon . " 1.30
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

Soapstone.....40&5%

GRINDSTONES

Family—In..... 7 8 9
Per doz.....$7 75 8 75 10 00
Loose.
Per ton.....$20 00@$21 00
Mounted—
Ball Bearing..... 1 2 3
Each.....$3 10 2 90 2 75
Common Bearing.. 1 2 3
Each.....$2 85 2 65 2 50
Schofield's—
Auto.....each, $3 30
Bitrendle..... " 3 10

HAFTS—AWL

Brad—Common.....per doz., $0.18
Peg—
Common..... " 21
Patent, plain top..... " 46
" leather top .. " 52
Sewing—
Common..... " 21
Patent..... " 52

HALTERS

Jute Rope.....per doz., $0 80
Sisal Rope..... " 1 95
Web..... " 2 10
Leather, rope tie..... " 6 25
" leather tie... " 8 25

HAMMERS—HANDLED

Blacksmiths' Hand
Maydole's.....40&10%
Plumb's.....50&10&5%
Engineers'—
Maydole's.....40&10%
Plumb's Oil Finish.....60%
" Polished.....50&10&5%
Farriers'.
Maydole's.....35&5%
Plumb's.....40&5%
Machinists'.
Maydole's.....40&10%
Plumb's.....50&10&5%
Nail.
Ajax.....per doz $5 75
Calumet..... " 3 40
Cast.....per doz $1 10@$1 50
Maydole's.....30&7½%
Plumb's.....40&5%
Vulcan.....35&5%

Riveting.
Maydole's.....35&5%
Plumb's.....40&5%
Shoe. Plumb's.....30&5%
Tack.
All Iron.....per doz $0 32
Pol'd Iron, Hickory hdl " 0 48
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz..... 70c 80c 95c
Magazine.....per doz $4 75

HAMMERS—HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10%
5 lbs. and over.....75%
Masons'—Single & Double Face..75%

HANDLES.

Auger.
Common Ass'd.....per doz $0 36
Peck's Adjustable..... " 2 10
Roger's " ..... " 4 15
Ives' " .....per set 1 25
Axe.....40&5@50%
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted.....per doz 24c
Coal Pick.....40&10%
Drifting Pick.....40&10&5%
File, assorted 13c. large 16c per doz.
Hammer.
Adze Eye.....per doz 35c
Blacksmiths'.....per doz 36c@55c
Machinists'..... " 38c@60c
Hatchet.....per doz 36c
Hay and Manure Fork....50&5%@60%
Hoe and Rake.....50&5%
Saw, Plain 72c, Varnished 68c per dz.
Screw Driver, Assorted 42c, Large 48c per doz.
Shovel and Spade.....50&5%

HANGERS

Barn Door—
Rival.....per doz. prs., $3 90
Superb..... " 6 25
Safety Flexible. " 7 50
Prouty..... " 5 50
King..... " 5 00
Eave Trough—
Baker's.....per gr., $2 35
Imperial.....10%
Wire.....25%
Parlor Door—
Acme.....per set $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
" New Model..... " 2 80
Prouty..... " 3 00
Wilcox Trolley..... " 3 75

HASPS.

Hinge, Wrought.....50, 25&10%
With Staples—See Staples.

HATCHETS.

Ajax.....40&10&5%
Blood's.....40&10%
Cast Claw.....per doz $1 50@$1 75
Cast Shingling..... " 1 20
Duffy's Barrel.....per doz 17 50
Germantown.....35&5%
Hammond's.....40%
Plumb's.....40&10&5%
Plumb's Warehouse.....40%
Roger's Ideal.....per doz $5 25
Underhill's Star Lath.....40%
S. A.....30&10%

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz...$12 60
" No. 2, " ... 13 20

HINGES.

Blind.
Clark's Gravity, 1 2 3
Per doz sets.....74c $1 80 $3 50
Parker's.....70%
Shepherd's Noiseless, for Wood casing.....doz 95c
Stanley's Wrought..per dz sets 84c
Gate.
Clark's, 1 2 3
Hgs & Ltchs, dz.. $2 20 $2 35 $3 60
Hinges Only, " .. 1 60 1 70
Latchs Only, " .. 0 65 0 70
Knuckle.....per doz prs $6 25
Leed's..... " sets 6 50
Superior..... " prs 9 25
Spring.
American.....25%
Bommer Bros. Ball B'rng Floor 40%
Bommer Bros. Spring Hinges .40%
Chicago.....25&5%
Clover Leaf.....per gro $6 75
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable,....per gro $10 80
New Idea..... " 8 75
Oxford.....30%
Wrought Iron.
Light Strap Hinges.....70&25&10%
Heavy Strap Hinges.75, 10, 25 & 10%
Light T Hinges.....65%, 25 & 10%
Heavy T Hinges ..60, 5, 25 & 10%
Extra Heavy T Hinges 75, 25 & 10%
Cor. Heavy Strap.....75, 10, 25 &10%
Cor. Ex. Heavy T.....75, 25 & 10%
Screw Hook and Strap.
6 to 12in.....per 100 lbs. $3.75
14 to 20in..... " " 3.50
22 to 36in..... " " 3.25
Screw Hook and Eye.
¾ to 1in.....per 100 lbs. $6.50
⅝in..... " " 8.00
½in..... " " 10.00

HOES.

Garden.....75&10&5%
Grub.....65&5%
Hazel.....per doz $6 25
Ladies' and Boys'.....70, 10, 5, 10&5%
Mortar.....75, 7½, 10&5%
Planter's Eye.....60&10&2½%
Weed.....70, 10, 10&5½%

HOOKS.

And Eyes.
Brass.....50&10&5%
Iron.....65&10%
Awning.....per gro $1 50
Belt.....75&5%
Bench—See Stops, Bench.
Box, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Humason & Beckley's...pr dz $2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle .....per doz $7 00@$8 50
Hamilton Pattern.....per doz $7 25
Chain—In. ¼&5-16 ⅜ 7-16 ½
Per 100.. $8 25 $9 75 $11 50 $12 00
Clothes Line.
Japanned.....per doz 21c@22c
Galvanized..... " 35c
Coat and Hat.
Cast Iron.....per gro 72c@$1 00
Gem Wire.....65%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought.....40&10%@50%
Corn.
Common, unpolished, per doz. $1 30
" polished... " 1 60
"Cut Easy," serrated, per doz. 2 90
Gate.—See Goods, Bright Wire.
Grass.
Common, Nos. 2 3 4
Per doz..... $1 60 $1 65 $1 70
German.....per doz $1 85
Little Giant..... " 3 10
Wood's..... " 1 30
Hammock.
Common..... " 21c
With Plate..... " 36c
With Screw..... " 36c
Piggot's..... " $1 05
Lambrequin or Drapery...per gro 21c
Picture.....50%@50&10%
Potato and Manure.....70&10&7½%
Screw, Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per lb 5½c

HOOPS—TUB.

Ever Ready.....per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
Black, pr ft. 7¼c 8½c 9½c 10¾c 11¾c
Cotton, 3 ply.....per ft 6¾c
Red, 3 ply..... " 7½c
Yucatan Endless...per ft 11¼c@12¼c

HUSKERS.

Boss.
Nos. E A B P PX
Dz.$1 85 $2 00 $1 95 Gr.$5 90 $5 40
Nos.2000 3000 4000 O OX
Gr.$3 10 $6 75 Dz.$1 15 $2 25 $1 75
Brinkerhoff's.....per gro 14 50
Common Sense.....per doz 1 60
Harrington.....per gro 4 50
Ideal—Nos. 102 101 100
Per doz..... $1 60 $3 00 $3 15
Johnson's.....per gro 7 75
Tyler's..... " 8 40
Vaughan's..... " 2 30

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz 33c@48c
Princess.....per doz $0 60
Yale..... " 0 84
Oxford..... " 1 10
Ruby..... " 1 50
Tourist, Folding..... " 0 90
Pinking..... " 0 60
Plane.
Wood, Bench.....20&5%
Stanley R. & L. Co. (new list)25&5%
Sad.
Charcoal.....per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing.....per doz 7 25
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise...per set 77c
No. 55 J, " ... " 71c
No. 50 T, " ... " 80c
No. 55 T. " ... " 77c
No. 50, Howells..... " 77c
No. 55, " ..... " 74c
Tailors' Sad.....per lb 4¼c
" Geese..... " 4¼c
Tuyere.
Single Duck Nest.....per doz $5 25
Double " " ..... " 6 25
Sutton.....each 2 60

JACKS.

Locomotive.....75&5%
Wagon.
Meeker's.....per doz $11 25
Miller's No. 2..... " 7 75
T., M. & S..... " 9 00
Winner..... " 7 75

KETTLES.

Brass.....30%
Caldron..... 50%
Copper.....per lb 26c
Maslin.....65&10%
Sugar.....50&10&5%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade.dz $4 25
" 12-in. Straight " .dz 2 50

Cooper's Hoop.....15%
Corn.
Acorn.....per doz $2 10
Ajax..... " 2 25
Clipper, Light, $1 60; Heavy, $1 75 per doz.
Disston's.....per doz $2 85
Easy (attached to foot) " 7 75
Greenleaf's..... " 3 60
Drawing.
Standard.....70%
Adjustable.....20%
Barton's Carpenters'.....10&5%
" Folding Handle....25&5%
Hay.
American, Sickle Edge...doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 25
Lightn'g, Holt's Genuine " 5 75
Lightning Pattern..... " 5 50
Wadsworth's Sp'r Point. " 8 25
Hedge.
Ajax, Heavy, $5 75; Ex. Heavy, $7 75 per doz.
Mincing.
Common, Single.....per doz 48c
" Double..... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
Putty.
Common.....per doz 84c
Goodell's.....per doz $1 30@$1 80
Russell's..... " 1 75@ 2 25

KNOBS.

Base, 2½-in. Maple, Rubber Tip, ...per gro $1 60
Door, Mineral.....per doz 0 80
Porcelain..... " 0 90
Jet..... " 0 88
Picture.....60&10&5%

LADDERS.

Common Long.....per ft 8½c@13c
Extension.....per ft 10½c
Step.
Common..... " 6c
" With Shelf, add 10c.
I X L.....per ft 19c
Miller's Household. per ft 13c@15c

LANTERNS.

Bull's Eye Police.
3-in Flash Light.....per doz $6 00
2¾-in Regular..... " 4 00
2-in Regular..... " 5 00
Tubular, Berger.....40&10&5%

LEADERS—CATTLE.

Nos. 1 2 3
Per doz... $0 70 $0 85 $3 75

LEATHER—LACE.

Cut.....50&5%
Sides, Ex. Quality.....per sq ft 21c

LEATHERS—PUMP.

Valve and Plunger.....50%

LIFTERS.

Stove Cover.
Japanned.....per gro $2 75
Coppered..... " 3 60
Alaska..... " 7 50
Chilkoot..... " 4 75
Devore's..... " 5 50
Zero..... " 3 90
Transom, Payson's.....70&10%

LINES.

Chalk, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 29c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz..... 24c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz..... 23c 26c 32c
Masons', in 100-ft hanks...doz $1 00
Clothes.
60-ft Jute.....per doz $0 90
72-ft " ..... " 1 00
60-ft Sisal..... " 1 50
72.ft " ..... " 2 00
60-ft Cotton..... " 1 25
50-ft Braided Cotton..... " 0 84

LINING—STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring	Without Augers.	With Augers.
Ajax.....per doz	$5 25	$6 75
Angular... "	3 25	5 00
Boss..... "	4 50	5
Upright... "	2 90	4

Leather Riveting.
Chicago, Pomeroy....per doz $9 75
Excelsior..... " 2 50
Handy..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy..... " 8 00
Washing.
Boss. 1 2 5 3
Per doz.. $54 00 $60 00 $66 00 $66 00
Globe, No. 1.....per doz $51 00
Horton Rotary..... " 54 00
O K Rotary..... " 58 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Western Square, No. 2, $26 50; No 3, $28 50 per doz.

MALLETS.

Carpenters'.
Fibre Head, Small. Med. Large.
Per doz..... $5 00 $5 75 $6 75
Round Hickory.....per doz $1 75
" Lignumvitæ.... " 2 75
Square Hickory..... " 1 75
" Lignumvitæ .. " 3 25
Tinners'.
Applewood..... " 1 65
Hickory..... " 0 80
Hickory Sheet Iron.... " 0 95

MATS.

Door.
National Rigid ..... 60&5%
Queen Flexible 50%
Stove.
Augite Asbestos ..... per doz $0 25
Crown " ..... " 0 30
Wire Covered Asbestos, Ex. Heavy ..... per doz 1 00

MATTOCKS.

Extra ..... 65&5%
Hunt's ..... 40&5%

MAULS.

Post.
Iron, lbs. 10 13 16 18 20
Per doz. $3 15 $3 85 $5 00 5 20 $5 80
Wood face, lbs. 10 11 12
Per doz $4 75 $5 00 $5 25
Wood Choppers'.
Lake Super'r & Oregon Pat. 70&10%

MEASURES.

	¼ pk	1 pk	½ bu
Galvanized..per dz		$3 75	
Japanned.... "	$1 60	2 35	$3 10
Iron Bound. "	1 40	1 70	2 00

METAL.

Babbitt.
Alm ..... per lb 8¾c
Best ..... " 23c
Common, No. 4 ..... " 6½c
Copper Mixed ..... " 18½c
Magnolia Metal ..... " 19c
Tony ..... " 10¼c
See Metals—In first column.

MICA.

First Quality ..... 40, 10&5%
Second Quality 60%

MILLS—COFFEE.

Enterprise ..... 25&5%
National 30%
Parker ..... 50&10%@60%

MOPS.

Erie ..... per doz $3 15
Handled Cotton.

Lbs.	¾	1	1¼	2
Per doz..	$1 65	$2 10	$2 25	$2 95

MOWERS—LAWN.

Ball-Bearing.

In.	15	17	19	21
Each.....	$7 00	$7 60	$8 25	$8 90

Champion.

In.	12	14	16	18	20
Ea..	$2 10	$2 15	$2 15	$2 20	$2 35

Champion, High Chief.

In.	16	18	20
Each.....	$3 40	$3 70	$4 00

Cheap Grades.

In.	12	14	16	18
Each.....	$1 90	$1 95	$1 95	$2 10

Clipper ..... 50&10&10%
Girard, in. 14 16
Each $2 60 $2 80
Philadelphia.
All Styles Except A & E ..... 70&5%
Style A ..... 60&5%
Style E, High Wheel ..... 70, 10&5%
Drevels 50%
All Day ..... Net Price

MUZZLES.

Horse.

Nos.	1	2	3	4	5
Doz.	$0 30	$0 50	$0 55	$0 70	$1 00

NAILS.

Horse Shoe.
Aussable 50%
Capewell 10%
Perfect ..... 40&5&
Putnam 33⅓%
Star 35%
Picture.
Brass Head ..... 40&10%
Judd's ..... 40&10%
Brads ..... 60&10&10%
Wire Nails—Small lots $2.15
Car load lots 1.95

NETTING—POULTRY.

Galvanized Before Weaving .80&20
" After Weaving ... 80&15
Cut Pieces ..... 65&5%

NIPPERS.

End Cutting.
P. S. & W. Co. ..... 40&5%
Stubb's Pattern ..... 40&10&5%
Hoof.
Heller's ..... 40&5%
P. S. & W. Co. ..... 40&10%
V. & B 35%

NOZZLES.

Hose.
Genuine Boston ..... per doz $3 40
Genuine Gem ..... " 3 60
Magic ..... " 3 60

NUTS—HOT PRESSED.

Square Blank.

In.	¼	⅜	½	⅝	¾	⅞	1
Lb.	9½c	6½c	4½c	4½c	4½c	4c	3⅝c

Square Tapped.

In.	¼	⅜	½	⅝	¾
Lb.	12½c	10½c	6½c	5½c	5½c

OILS.

Linseed, Pure boiled ..... per gal 47c
" " raw ..... " 46c

OILERS.

Chase Pattern.
Brass and Copper ..... 35&5%
Zinc ..... 50&10&5%
Engineers'.
Cannon ..... 40&5%
Steel ..... 60&10&5%
Tin ..... per doz $2 50@$3 00
Machine.
Ajax ..... per doz $0 80
Copper Plated Steel ..... " 1 50
Malleable Iron ..... 40&10&5%
Tin ..... per doz 50c@65c

OPENERS.

Box, in. 10 12 14
Flat ... per doz $2 85 $3 60 $4 15
Round.. " 2 10 2 25 2 70

Can.
American ..... per doz $0 25
Delmonico ..... " 1 50
Never Slip ..... " 0 60
Perfect ..... " 1 35
Tip Top ..... " 0 84
Crate, V. & B ..... " 5 75

OUTFITS—COBBLING.

Combination ..... per doz $11 50
Economical ..... " 4 80
Family ..... " 10 00

PADLOCKS.

Standard Wrought ..... 70&10&5%
Champion 50%
Eureka ..... 40&10&5%
Yale ..... 60&5%

PAILS.

Cream.
14-qt., Without Ga .... per doz $3 00
20-qt., " " .... " 3 50
20-qt., With Gauge .... " 5 00
Sap, 10-qt., Galvanized, $1 85; 12-qt., Galvanized, $2 20 per doz.
Stock, Galvanized.

Quarts.	14	16	18	20
Per doz...	$3 75	$4 00	$4 65	$5 25

Water, Galvd, qts. 10 12 14
Per doz $2 00 $2 30 $2 60
Wood.
Cable, 2-Hoop, $1 70; 3-Hoop, $1 90 per doz.
Cedar, 3-Hoop, $2 50 per doz.
Standard, 2-Hoop, $1 55; 3-Hoop, $1 75 per doz.

PANS.

Dripping ..... 50&10&5%
Fry, Common ..... 60&10&5%
Acme ..... 60&5%
Roasting.
Brownie ..... Each 30c@37c
L. & H ..... " 58c@80c

PAPER.

Building.
Plain ..... per 100 lbs $1 10
Tarred ..... " 1 25
Tarred Felt ..... " 1 75
Diamond A, Red Rosin. pr roll 0 63
Leader, Red Rosin ..... " 0 48
Sand and Emery.
Ajax ..... 50&10%
B. & A 50%
Wrapping.
Grecian Express ..... per lb 3½c
Rag ..... " 2c

PARERS.

Apple.
Bay State ..... per doz $13 00
Reading ..... " 6 75
Turntable ..... " 6 00
White Mountain ..... " 5 25
Potato.
Goodsell's Saratoga .. per doz. $6 50
White Mountain ..... " 6 00

PICKS

Drifting and Poll Picks ..... 60&10%
Extra Railroad ..... 65&5%
Surface ..... 65&5%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws 30%
Blacksmiths' 50%
P. S. & W. ..... 40&10&5%

PINS.

Clothes.
Common ..... per gr.. $0 12
Hoyt's ..... " .. 30
U. S. ..... " .. 70
Picket.
Fluted ..... per doz.. $0 72
Round ..... " .. 1 55
Spiral ..... " .. 1 90

PIPE.

Conductor.	Nested	Not nested
Eastern	75&7½%	75&2½%
Central	75&2½%	70&12½%
Southwst'n ..	65-10&10%	65-10&5%
Mo. River	75&2½%	80&3½%
Southern	70&7½%	75-10&5%

Lead.
Full coils ..... per lb.. $0 5¾
Cut " ..... " .. 06
Stove.

Acme—In.	5	6	7
Smooth, per jt.	11½c	11½c	13¾c
Planished, " ..	32c	33c	43c
Peerless—Smooth..	9½c	9½c	12c
Polished..	16c	18½c	23c
Planished..	29c	31c	40c
Made-up—In.	5	6	7
Smooth.....	11½c	11½c	14½c

7 to 6 in. Smooth Tapers, pr jt.. 15c
6 in, Smooth T's ..... " .. 20c
7 to 6 in. Planished Tapers 45c
Wrought Iron.
List March, 1900.
½ to ⅞ in., black ..... discount, 56%
¾ to 12 " " ..... " 63%
½ to ⅞ " galvanized.. " 43%
¾ to 12 " " .. " 51%

PLANES.

Ohio ..... 60&5%
Stanley Planes, new list .. 30%@30&5%
Bailey Planes 35%
Sandusky 25%

PLANTERS.

Corn,
Impro clipse ...p z.. $7 75
Monitor ..... " .. 7 25
Triumph ..... " .. 5 75
Potato
Acme ..... per doz.. $5 75
Challenge ..... " . 10 75

PLATES—TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz $2.60 $3.10 $3.90 $5.20
Button's Pattern.

In.	4½	6	8	10
Per doz.....	$2.35	$2.50	$3.45	$4.40

Cutting.
Cronk's Comb ..... per doz.. $6 25
Bernard's 30%
Lodi ..... 40&10&5%
Stubb's 50%
Fencing.
Cronk's ..... per doz.. $9 25
Farmers' Choice ..... " .. 8 75
Russell's ..... " .. 8 65
Flat and Round Nose.
Bernard's 30%
German 50%
Lodi 40%
Paragon ..... 40&10%
P. S. & W. Co. 60%
Gas—In. 8 10 12
Per doz $3.10 $4.00 $4.90

PLUMBS AND LEVELS.

Common ..... 75%@75&10%
Cook's 40%
Davis' Iron 30%
Davis' Inclinometer 20%
Stanley's

Nos.	00S	0S	2S	3S
Per doz..	$4.15	$4.60	$7.20	$7.90
Nos.	30	25	50	35
Per doz.	$12.90	$17.20	$17.20	$11.75

POINTS. Discount

Drive Well Points ..... 80&5%

POKERS—STOVE.

Wr't Iron, str't or bent, per doz. $0 50
Wr't Iron, wood hand'ls " 75
Nickel pl'td. coil hdl's.. " 70

POKES—ANIMAL.

American ..... per doz $2 60
Brown's wr't steel " .. $5 25@6 25
Eagle ..... " $4 25
Success ..... " 2 60

POLES—FISHING.

Bamboo.

Ft.	12	14	16	18	20
Pr 100..	$2.75	$3.40	$4.75	$6.00	$7.75

POLISH.

Metal.
Burnishine, ½ pt .... per doz.. $1 60
1 pt .... " .. 2 60
Pride of the Bar ..... " .. 1 60
Putz Cream.

Pts.	1-6	¼	½
Per doz.....	$0.84	$1.25	$1.80

Pts.	1	2	4	8
Per doz.	$3.60	$6.00	$9.00	$18.00

Wondershine

Pts.	1-6	½	1	2
Per doz...	$0.66	$1.30	$2.15	$3.00

Shoe.
M. D. C. ..... per doz.. 36c@50c
F. C. O ..... " 40c
T. M ..... " 50c@$1 25
Imperial ..... per gr $5 00
Stove.
Black Eagle, 1 lb cans, pr gr.. $15 00
Blackene, 1 lb cans .... " .. 13 00
Black Jack, ¾ lb cans. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Enameline ..... " .. 4 75
Nickel Plate ..... " .. 4 50
Rising Sun ..... " .. 6 00

POPPERS, CORN.

Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt ..... per doz., $1 00
Square, 2 qt ..... per doz., 1 30
1 qt. reversible ..... per doz., 1 60

POTS—FIRE.

Bernz ..... each.. $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City ..... each.. 6 25
Gem ..... " .. 6 75

POWDER.

See Ammunition.

PRESSES—FRUIT AND JELLY.

Enterprise Manufacturing Co ... 25%
Henis ..... per doz. $2 10

PRUNERS.

Disston's Pole ..... per doz.. $7 50
Henry's Improved .. per doz.. 65&10%
Water's Improved. " 75%

PULLERS.

Cork.
Modern ..... each.. $2 60
Quick and Easy ..... " .. 2 90
Nail.
Giant ..... per doz.. $9 00@10 50
Giant Pattern. " .. 6 00
Tack—Giant .... " .. 60

PULLEYS.

Awning—Jap'd ..... 35&5%
Clothes Line 30%
Hay Fork.
Iron Wheel, 5 in ..... per doz.. $1 70
Wood Wheel, 6 in ... " .. 1 60
Wood Wheel, 6 in ... pass knot ..... " .. 1 75
Hot House—Jap'd 33⅓%
Screw ..... " 35%
Side ..... " 35%
Sash.
Chicago ..... per doz.. $0 29
Clark's ..... " .. 42
Common Sense, 2 in.. " .. 26
" Pattern, 2 in.. " .. 21
Empire ..... " .. 23
Ideal ..... " .. 21
Ottumwa ball b'ring " .. 38
Grand Rapids, No. 17 " .. 28
" " No 11 " .. 24

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each.....	$0.98	$1.10	$1.20	$1.45

Spray.
Blizzard ..... per doz.. $14 25
Cyclone, tin ..... " .. 3 90
" copper ..... " .. 6 75
Daisy ..... " .. 8 75
Little Giant ..... each.. 2 40

PUNCHES.

Conductors', No. 22 .... per doz.. $2 50
Machine ..... per lb . 19

Saddlers'.
Common ..... per doz.. 60c@70c
Good ..... " .. 72c@84c
Spring.
1 Tube ..... per doz.. $2 25
4 Tube, revolving ..... " .. 5 25
Tinners'.
Hollow 40%
Solid ..... each.. 5½c

PUTTY.

In Bladders.
Strictly pure ..... per 100 lbs. $2 35
Commercial ..... " " 2 10

RAIL.

Barn Door.
Light Wrought .. .. per ft. 3c
Safety ..... " 5½c
Single Flange ..... " 1⅝c
Sliding Door.
Painted iron ..... per ft. 4½c
Bronzed wr't iron ..... " 8½c

RAKES.

Coal or Road ..... per doz. $5.25
Garden.
Steel, braced ..... 70&10&5%
Steel, bow ..... 70, 5, 10&5%
Malleable iron, heavy ..... 70@10%
Hay—Wood ..... per doz. $1 05@1 70
Lawn—Wood.
Common ..... per doz. $2
Automatic ..... " 6 00
New Lawn Queen .... " 3 00
Jumbo, 36 teeth ..... " 5 75

RASPS—See Files.

REGISTERS.

List Sept. 1, 1901.

Black Japanned, White Japanned, Bronzed Finishes, Nickel Plated, Electro Plated Brass, Bronze or Copper ..... 75&10%

RINGS

and Ringers—Hog.
Blair's Rings ..... per doz. 60c
Blair's Ringers ..... " 84c
Brown's Rings ..... " 65c
Brown's Ringers ..... " 90c
Champion Rings ..... " $2 35
Champion Ringers ..... " 1 70
Hill's Rings ..... " 42c
Hill's Ringers ..... "70c@95c
Mazor Rings ..... " 80c
Mazor Ringers ..... " $1 15
Perfect Rings ..... " 84c
Perfect Ringers ..... " $1 05
Wolverine Rings ..... " 1 50
Wolverine Ringers .... " 70c
Bull.

Copper,	2½-in.	3-in.
per doz.	$1 35	$1 70
Steel ..... per doz.	95	1 05

Steel, Nickel Pl't'd, 2½-in., doz. 1 35
Rea's Self Piercing $1.95
Fruit Jar—White ..... per lb. 30c
Key.
Split, round ..... per doz. 16c
Split, square ..... " 32c
Ball, round ..... " 32c

RIVETS.

and Burrs.
Copper Belt ..... 50&10&5%
Coppered Iron 75%
Tinners' 75%
Hame ..... per lb. 5c
Slotted Clinch ..... per doz. 70c@75c
Tubular—Nos. 1 and 2, assorted sizes ..... per doz. 60c

ROPE.

Per lb.

Manila, 7-16 inch diameter and larger ..... 12c "
Sisal, 7-16 in. and larger .. 8½c "
Cotton.
¼ and 5-16-in. on reels ... per lb. 13c
¼ and 5-16-in. in coils .. " 12½c

RULES.

Boxwood ..... 40%@40&10%
There is no regular discount on Boxwood Rules. They are now sold net.
Ivory ..... 35&5%

SASH WEIGHTS.

Per ton, f.o.b. Chicago $8 00

SAWS.

Back.
Disston's ..... 25&5%
Jackson's ..... 25&5%
Butchers'—Disston's 40%
Circular.
Disston's 50%
Hiles' 50%
Compass.
Common ..... per doz. $1 35@1 60
Disston's ..... 25&5%
Cross-Cut.
Atkin's 40%
Disston's ..... 40&10% &50%
Pocahontas Bit ..... per ft. 35c
Pocahontas, Blued ..... " 41c
Dehorning.
Atkins' ..... per doz. $5 50
Disston's ..... " 5 75
Hack.
Disston's 30%
Keystone 30%
Hand and Rip.
Brown's ..... 30&5%
Disston's No. 7 ..... 30&5%
Disston's Nos. 8, D8, 12, 76, D100, and 120 ..... 25&5%
Gorham's Comb ..... 30&5%
Keystone ..... 30&5%
Sam Sickles', hand ... per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
"U. S. A." hand ..... " 12 25
"U. S. A." rip ..... " 14 25
Keyhole—Disston's ..... 25&5%
One Man 50%

SAWS—CONTINUED.

Panel.
Brown's .....30&5%
Disston's No. 7.....30&5%
Disston's Nos. D8 and 12.....25&5%
"I Will" 40%
"U. S. A." .....40&10&5%
Pruning.
Avery's Duplex .....25&5%
Brown's .....25&5%
Disston's.....25&5%
Wood.
Common.....per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever.....per doz. $ 1.20
Stillman's Lever.....per doz. 1.30
Leach's.....per doz. 5.00
Nash's.....per doz. 4.20
Monarch.....per doz. 6.50
Morrill's, Old Style....per doz. 5.00
" No. 1.....per doz. 7.25
" No. 3 & 4 X Cut. per doz. 11.50
" No. 11.....per doz. 8.40
Aiken's Pattern.....per doz. 3.50

FRAMES—SAW.

Common, plain.....per doz. $1 20
" painted..... " 1 60

SCALES.

Counter.
Fairbank's Standard.....40%
Hatch's.....per doz. $21 50
Little Detective, 1 2 6
Each $1 65 1 85 1 80
No. 1 Tea .....per doz. 7 75
Union Platform.....each 2 35
Pelouze 25%
Turnbull's Market.....50%
Platform.
Common, 600 800 1000
Each $8 75 9 75 10 75
Chicago Standard.....33⅓%&40%
Fairbank's Standard.....40%

SCOOPS.

Ames.....10&10%
Eastern Pattern. Socket Strap.
Nos. 2 3 4 5 6
Per doz. $7.75 8.00 8.25 8.50 8.75
Nos. 7 8 9 10 12
Per doz. $9.00 9.25 9.50 9.75 10.25
Western Pattern. Socket Strap.
Nos. 1 2 3 4 5
Per doz. $7.75 8.00 8.25 8.50 8.75
Ajax. *Eastern Pattern,*
Nos. 2 3 4 5
Per doz. $5.75 6.00 6.25 6.50
Nos. 6 7 8 9
Per doz. $6.75 7.00 7.25 7.50
Ajax. *Eastern Pattern,* extra heavy,
Nos. 3 5 6 7
Per doz. $7.75 8.25 8.50 8.75
Ajax. *Western Pattern,*
Nos. 4 5 6 7
Per doz. $6.25 6.50 6.75 7.00
Nos. 8 9 10 12
Per doz. $7.25 7.50 7.75 8.25

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 10
Cabinet.
Ajax .....per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80..... " $7 75
Road.
Cubic ft. 7 5 3
Without runners, ea. $5.00 4.75 4.50
With runners.... " 5.25 5.00 4.75

SCREWS.

Bench.
Iron.....40%
Wood, white maple..per doz..$3 60
Hand--Wood.....20%
Hand Rail.....70&10%
Jack.....75&5%
Lag or Coach. Gimlet Point..70&10%
Saw--Centennial.
Nos. 1 2 3 4
Per doz..... 22c 25c 32c 35c
Wood.
F. H. Bright Steel.....90&10%
R. H. Blued Steel.....85&10%
F. H. Jap'd Steel.....80&15%
F. H. Brass .....85&10%
R. H. Brass .....80&15%
R. H. Nickel Plated.....75&10%

SCYTHES.

Clipper, grain.....per doz..$8 75
Dutchman, grass ..... " .. 5 50
Golden Clipper, grass. " .. 5 25
U. S. A., grass..... " .. 6 50

SETS.

Nail.
Round, common.....per doz..$0 33
Square " ..... " .. 42
Octagon " ..... " .. 33
Square, Buck Bros.. " .. 1 25
Cup Point, knurled. pr doz. 70c@9 c
Rivet.
Farmers'.....per doz..$1 45
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz..$3 5
Common Lever. ..... " .. 1 20
Disston's Monarch .. " .. 6 50
" X Cut ..... " ..11 75
German..... " .. 1 35
Morrill's Old Style... " .. 5 0
" Pattern.... " .. 4 50
Leach's..... " .. 4 80
Nash's Hand..... " .. 4 00
" X Cut ..... " .. 5 50
Stillman's Lever..... " .. 1 30
" X Cut.... . 2 50

SHARPENERS--SKATE.

Diamond..... .... per doz..$1 60

SHAVES--SPOKE.

Iron.....per doz..$1 15@$2 25
Wood..... " .. 2 75@ 4 75
Bailey's .....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.

Pruning.
Buckeye, No. 1.....per doz..$6 50
" No. 2..... " .. 8 50
California Pat., 9 in.. " .. 4 25
" 10 in.. " .. 5 00
Draw Cut, No. 3..... " ..15 50
" No. 4..... " ..18 50
Henry's Pat. 0 01 14 012
Per doz...$1.90 $2.50 $3.15 $3.50
Star.....per doz..$4 75
Sheep--No. BBA.
6 in. 6½ in. 7 in.
Reg.Grip..$11.00 $11.35 $12.00 doz.
Nar.Grip.. 11.20 11.00 12.15
Tinners'--See Snips.

SHEAVES—SLIDING DOOR.

In. 3 4 5
Common..Per set..$0.34 $0.42 $0.68
Hatfield's. " .. .75 1.00 1.00

SHELLERS--CORN.

Union .....per doz..$7 25

SHOT--See Ammunition.

SHOVELS AND SPADES.

Railroad, Etc.
Gold Hibbard's.....per doz.. $9 25
C. H. Conovers's.... " .. 7 75
Beckwith's..... " .. 7 75
Hickory..... " .. 6 25
Greenleaf's ..... " .. 5 75
Columbus..... " .. 5 00
Ames' new list.....Discount 12½%
Coal.
No. 2 Ajax.....per doz..$5 25
No. 4 Golds..... " .. 6 25
Ames' new list.....Discount 12½%

SIEVES.

Champion.....per doz. $1.00
Hunter's Genuine..... " 1.20
" Imitation.... " 1.00
Tin Rim, 16 mesh plain wire" 1.35
Wood " 16 mesh plain wire" .85

SINKS.

Cast Iron.
Painted.....50&10&5%
Enameled, White .....60&10&5%
Wrought Steel.
New Era.....50%

SLEDGES--See Hammers.

SNAPS—HARNESS.

Champion.....65%
German Pattern.....30&5%
Judd's Pattern.....60&10%@70%

SNATHS.

Double Ring, Bush....per doz..$6 50
Patent Loop " .... " .. 7 00
" " Brass.... " .. 6 25

SNIPS--TINNERS'.

Hernisch's .....40&5%
National .... 40&5%
P. S. & W. Co.'s.....25&5%

SOLDER.

See Metals, Column 1

SPRINGS--DOOR.

Perfect. Nos. 1 2 3 4
Per doz..... 35c 40c 45c 50c
Reliance, Light $1.40. Heavy $2.20 doz.
Star..... " .90, " 1.30 "
Torrey's.....per doz..$1 35
Warner's.....per doz..68c@$1 35

SQUARES

Steel and Iron.....70&5%
(Add for Bluing, $2.50 per doz., net.)
Mitre--Stanley's No. 12 .....40%
Try.
Stanley's No. 20, new list....40&5%
" Nos. 12 and 14.....40%
Try and Bevel--Stanley's.....40&5%
Try and Miter.
Fox's..... per doz..$7 25
Winterbottom's 50%

SQUEEZERS--LEMON.

Common Wood.....per doz..$0 72
Porcelain Lined, wood. " .. 1 35
Boss, tinned iron ..... " .. 80
Pearl, nickel plated.... " .. 1 20
Star " " ..... " .. 1 60
Little Giant, tin'd iron " .. 4 25
King..... " .. 2 40
Drum ..... " .. 4 25

STAPLES.

Blind—Barbed .....per lb. 9½@10c
Butter Tub..... " 8@8½c
Fence, less than carload.
Polished .....per 100 lb. $2 40
Galvanized ..... " 2 80
Netting—Galvanized.....per keg 3 60
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples .....85&10%
Extra heavy 80%

STEELYARDS.

Discount 25%

STONES.

Axe.
Hindostan .....per lb. 5½@7c
More Grit..... ..... " 9½c
Washita ..... " 16½c
Emery .....60%@65&5%
Oil—Unmounted.
Arkansas Hard .....per lb. $2 00
Arkansas Soft ..... " 1 15
Hindostan ..... " 6¼@6½
Lily White..... per lb 43c
Queer Creek..... " 14½c
Ouachita..... " 35c
Washita..... " 25c
Sythe.
Black Diamond.....per gro. $7 75
Clear Grit ..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 20
La Moille..... " 7 00
Pikes Gen. No. 1, Ind. Pond., per gro 4 75
White Mountain.....per gro. 6 50
Willoughby Lake .... " 6 25
Red End ..... " 3 15

STOPS—BENCH.

Hotchkiss'.....per doz. $2 60
Morrill's No. 1..... " 5 75

STOPPERS—FLUE.

Common .....per doz. 42c
Crown..... " 48c
Gem, flat, painted..... " 72c
Gem, cor'd, decorated.... " 68c
Kirch's ..... " $1 20
Peerless ..... " 72c
Skinner's Common Sense " 95c

STRAPS.

Scoop .....per doz. prs. $1 80
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior ..... " 5 50
Malleable Iron..... " 65
Perfection ..... " 6 00
Wire.
N. S. Elwood's .....per doz. $5 75
O. S. Elwood's..... " 5 75
Little Giant ..... " 5 00
Star Lever..... " 6 25
Star Tackle Block.... " 9 25
Warner's ..... " 6 25

SWEEPERS.

Carpet—Bissel's.
Standard.....per doz. $21 00
Grand Rapids Jap'd. " 23 00
Grand Rapids Plated " 25 00
Baby..... " 2 10
Little Jewel ..... " 6 25
Misses'..... " 9 75
Lawn--Finley 10%

SWIVELS.

Malleable Iron .....per lb. 6½c
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&5%
American Wire.....85&25&10%
Bill Posters Cut ....90&40%
Blued Carpet.....90&15%
Tinned Carpet.....90&15%
Gimp .....90&30&10%
Upholsters' Cut .....90&40&5%
Upholsters' Wire .....90&25%
Double Pointed .....90&20%
Copper .....per lb. 26c
Canvas Nails.....75&5%
Clout Nails.....75&10&5%
Hungarian Nails.....80&5%

TAPES--MEASURING.

Asses' Skin .....40&5%
Bend Leather.....20%
Chesterman's 25%
Patent Leather.....20%
Lufkin's.....30%
Rival Steel.....40&10%
Pocket .....per doz. $2 00@$3 50

TENTS AND PAULINS.

Wall Tents .....50&20&10%
Wedge Tents .....50&10&5
Paulins .....50&10&5%
Wagon Covers.....50&10&5%

THERMOMETERS.

Tin Case.....per doz.. 95c@$1 25
Wood Back..... " $1 75@ 9 00
Glass ..... " 15 50

TIES.

Bale.
Single Loop .....80&10&5%
All other kinds.....65&10%
Cow--See "Chains."
" TONGS.
Crimping—Packham's...per pair 50c
Gutter—P. S. & W. Co.'s. ....15&10%
Pipe—Brown's..... .....50%
Roofing—P. S. & W. Co.'s ....15&10%

TOOLS—SAW.

Atkin's Dexter.....per doz. $4 25
Atkin's Excelsior..... " 6 25
Disston's Universal 40%
McDonald's 33⅓%
Simond's Crescent.....per doz. $10.00

TRAPS.

Game.
Hawley & Norton.....70%
Newh use. 50%
New Victor 80%
Mole—Reddicks .....per doz. $5 75
Mouse and Rat.
Wood Choker.....per hole 10c
Tin Choker ..... " 11c
Delusion.....per doz. 85c
Out-o' Sight, Mouse.... " 65c
Out-o' Sight, Rat ..... " $1 35
Imitation Sight, Rat .. " 80c
Marty Rat..... " $6 75
Marty Rat, Imitation.. " 3 75
Marty Mouse..... " 3 15
Marty Mouse, Imitation " 2 10
E-Z-Ketch, Mouse..... " 42c
E-Z-Ketch, Rat ..... " 90c
French Automatic..... each $3 60
Fly.
Balloon .....per doz. $1 25
Harper's..... " 1 35

TROUGH--EAVE.

Eastern ..... Discount 80&7½%
Central..... ..... " 80&2½%
South Western.... " 75-10&2½%
Missouri River.... " 80&2½%
Southern ..... " 75-10&5%

TROWELS.

Brick.
Standard.....30%
Brade's.....10&7½%
Disston's.....30%
Rose's.....25%
Plasterers'.
Standard 33⅓%
Disston's.....30%
W. & McP.....25%

TRUCKS.

Bags.....each $1 00
Handy..... " 1 35
Warehouse.....60&5%

TUBS-WASH.

	No. 3	2	1	Ex. large
Standard, per doz.	$5.25	6.25	7.25	9.75
Dowel .... "	5.60	6.60	7.50	10.00
Cedar .... "	6.50	7.50	8.25	
Indurated. "	7.20	7.95	9.45	11.70

Galvanized.

No.	1	2	3
Per doz	$6.00	6.50	7.25

VISES.

Bonney's..... .. ....30%
Cheney's 20%
Parker's Oval Slide.....50@50&10%
Parker's Parallel.....15@20%
Parker's Victor.....10%
Parker's Combination.....5 &10%
Solid Box 50%
Adam's Mechanics'.....each $2 50

WARE,

Cast-Iron Hollow.
Ground .....50&5%
Unground.....60&5%
Extra Finished.....40&10&5%
White Enameled.....40&10&5%
Maslin Kettles.....65&10%
Enameled.
Adamant, one coat, 70&10%@75&10%
The manufacturers divide this ware into two classes, which take different discounts, noted above.
Crysolite, three coat.....40&5%

WASHERS.

Leather. In. ⅜ 1 1½ 1¾ 1¾
Nut, per C.....16c 17c 19c 25c 32c
Collar, per C...35c 40c 40c 43c
Wrought Iron.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb. 8½c 7½c 6½c 5c 4½c 4½c
Wrought Steel.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb. 9½c 8½c 7½c 6c 5½c 5½c

WEDGES.

Ax.....per doz....30c
Galling .....per lb..10½c
Saw..... " .. 8½c
Wood Choppers.
Lake Superior and Oregon, Pat .....per lb.. 9½c
Reg. Pattern, Steel... " .. 4 c
Truckee " " ... " .. 4½c

WEIGHTS.

Hitching.....per lb .2½c
Sash--F.O.B. Chicago..pr ton..$28.00

WHEEL BARROWS.

Common Railroad....per doz..$13 00
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray.. " .. 26 50
No. 04 Steel Dirt ... " .. 52 00
No. 04½ " " ... " .. 56 00

WHEELS.

Emery and Corundum.....75&5%
Well. In. 8 10 12 14
Per doz.... $1.90 $2.20 $3.00 $5.50

WIRE.

Barbed.	Painted.	Galv'd.
Carloads...pr 100 lbs..	$2.35	$2.65
Less than car " ..	2.40	2.70

Brass.
In coils.....20%
In 1 lb. spools, new list.....50&10%
Broom--Tinned.... ....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 lb. spools, new list.....50&10%
Fence--Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.20
Nos. 6 to 9, Galv'd... " 2.60
Hair--New list.....50&10%
Market.
Bright, full bdles.....75&2½%
Bright, broken bdles.....70, 10&5%
Coppered, full bdles.....70&7½%
Coppered, broken bodles ..70&2½%
Tinned, full bdles..... ...70, 10&5%
Tinned, broken bdles.....70&5%
Picture.
In coils.....80%@80&10%
In 5 lb. spools .....per lb..26c
Plain—Small lots.....$2.00
Car lots..... ... 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard.....60%
Alligator .....65&5%
Always Ready.....40&10&5%
Bemis & Call.....40%
Coe's Standard.....40&10%
Girard's Agricultural.....75%
P. S. & W. Co.'s Agricultural....75%
" " Knife H'dle..50&5%
Wescott's "S".....33⅓%
Malleable.....per lb..6c
Stillson Pipe .....60&5%
Trimo " 60%

WRINGERS.

Clothes.
Nos. 22&110. Guarantee. pr doz. $28 00
No. C 350, Novelty..... " 22 50
No. 3, Empress..... " 25 50
No. 150, Sunshine ..... " 18 00
No. 130, Mendota..... " 18 00
No. 12, Success..... " 16 00
No. C 500, Royal..... " 28 00
Blue Bell Ball Bear'g. " 26 00

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Pa ent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—Old established hardware and stove store in Milwaukee with good trade, good reasons for selling. Address "Au-Gr," Care of American Artisan, 69 Dearborn St., Chicago, Ill. 21

For Sale or Exchange—280 acres near Nashua, Ia., one of the best farms in Chickasaw Co.; has $7,000 worth of good improvements, good neighborhood, on farmers' telephone line and rural mail route, near school. Price $85 an acre. Will take $6,000 or $8,000 in hardware and implements or town property. This will make a good home or will rent well. Address "Property," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

For Sale—Hardware, Stoves, Paints, Oils and Tinshop; clean stock; in good, thriving country town of 900; have electric lights, waterworks. Stock invoice $1,850. Doing $7,000 business. Northwest of Chicago, on Fox River. Address "Paints," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

For Sale—Clean stock of hardware, stoves and tinware with tin shop in connection. Will invoice about $4,000, with tools; best location in town of 1,300 in central Illinois. Do over $10,000 yearly business. Cash deal only. Address Box No. 55, Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Wanted—A location for a tin shop in a country town in northern Illinois. Address Ira Gray, Yorkville, Ill., Box 40. 20

For Sale—A Hallwood Cash Register, as good as new, only used two months, will sell it on the monthly payment plan if you want it that way. Write for description of register and price. M. V. Secor, Winnebago City, Minn. 20

Wanted—A partner to take one-half interest in a sheet metal cornice shop. Business is increasing to such an extent requiring more capital and a partner to assist in management of same. Located in one of the best cities in the Northwest; experienced mechanic preferred. Address "Cornice," care American Artisan, No. 69 Dearborn St., Chicago, Ill. 20

For Sale—A stock of hardware, stoves and tinware and a large shop trade in a city of 5,000 in central Michigan county seat, and the best farming county in the state. Reason for selling of the best stock —$8,000, will be reduced to $6,000 by Dec. 1st. The business will reach $27,000 this year. Address "Box 20," care the American Artisan, 69 Dearborn St., Chicago, Ill. 20

Wanted—To buy a stock of hardware in a good town; give size of stock and full particulars. Address A. E. Glines, Rockwell, Cerro Gordo Co., Iowa. 19

For Sale—Hardware store and stock; a clean stock of hardware in center Iowa German locality, 26 years' established business; stock $4,000 to $5,000; good reason for selling. Inquire A. P. Arends, Aplington, Iowa. 19

For Sale—Good tinning business, roofing, furnace work and gas fitting, employs three men year around. Reason for selling, death of proprietor. For particulars address Mrs. D. A. Williams, Jefferson, Ashtabula Co., Ohio. 19

Chance of a Life Time—For Sale, or would take some trade on one of the best stocks of hardware in the state of Illinois; tin shop, heating and plumbing in connection; best of reasons for selling. Address at once, Golsen & Co., Tacoma Bldg., Chicago, Ill. 19

For Sale—A well established hardware business in one of the best towns in Iowa, population 3,500; a clean stock of about $4,000; a desirable location and a good trade. I have good reasons for wanting to sell. Address "Desirable," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 19

For Sale—A nice, clean stock of hardware, stoves and tinware, located in good town; central eastern Iowa; population, 2,300; stock invoices about $5,000; rent, $35 per month; a good business reason for selling; dissolution of firm. Address "K. Y.," Care of The American Artisan, 69 Dearborn St. Chicago, Ill. 19

TINNERS' TOOLS.

For Sale—Good second-hand Baltzly's steel stove truck, also one 30 inch P. S. W. stove pipe folder, nearly new. Chas. Skidd, Kenosha, Wis. 21

Wanted—Eight-foot Cornice Brake. Must be in first-class condition. State price, make, how long been used. Address S. D. Baxter, Algonquin, Ills. 21

Tools Wanted—We are in need of tinner's tools; if you have some for sale, in good condition, like to hear from you, and state prices. Lichtfeld Bros., Libertyville, Ill. 21

Tinners' tools for sale, all in first-class condition. Will sell in full sets or parts of sets. Cheap. Address H. Thompson, Chillicothe, Ill. 20

For Sale—Second-hand tinners' tools. Wiring, elbow and beading machines, a 20-inch folder, a 20-inch groover, a Buffalo circular shear, blow horn, tea kettle, creasing and seaming stakes, and three pairs bench shears. A. Weber Co., Keokuk, Iowa. 20

HELP WANTED.

Wanted—Tinner, a steady job for a man that understands his business and wages according; answer at once. Chris. Eckhard, Alton, Ill. 21

Wanted—A tinner that understands plumbing, at once; good wages and steady job; of course he must be sober. Address C. S. Barger, Albia, Ia. 21

Wanted—Stove sales, energetic, hustling salesman for southern Minnesota and South Dakota; one who has acquaintance with this territory preferred. Address Minnesota, Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Wanted—Energetic hustling stove salesman for city and suburbs. Address "Suburb," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Salesmen Wanted--Who call on the jobbing trade, to handle as a side line one of the easiest selling articles; good commission; article is advertised in this and other hardware journals. For particulars address 807 Baltimore Building, Chicago, Ill. 21

Wanted—Two stove salesmen to travel in Middle West. Salesmen able to handle an extra large assortment of steel goods including entire line or air tights, also cast cooks, ranges and furnaces. We will arrange large territory. Salaries arranged according to desire, either salary only or salary and commission. Address "R," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 20

4 first-class tinners wanted. Apply at Mohr-Jones Hardware Co., Racine, Wis. 20

Wanted—An A No. 1 all round man at once. One who is able to do heating and plumbing. Spradling & Arnold, Hoopestown, Ill. 20

Wanted—A good, sober tinner, one who can do plumbing, $3 per day and a steady job to a good man. Keckonen Hardware Co., Calumet, Mich. 20

Wanted—Experienced gas stove salesman by western manufacturer. Address "Gas Stove," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 20

Wanted—A tinner at once; state price wanted and what you can do. Rummel Bros., Sioux Falls, S. D. 19

Tinner Wanted—At once, good job and good pay to a first-class tinner. Lowell Hardware Co., Janesville, Wis. 19

Wanted—An all round tinner, steady job to the right man; don't write unless you want a job at once. E. P. Laugesen, Clintonville, Wis. 19

Wanted—First-class tinner and plumber, steady job to the right man; don't want a drinking man; good wages. Flemming Bros., Armstrong, Ia. 19

Wanted—A tinner and all around machine man for hardware furniture and implement store. Steady work and good wages for good man. Address "M. Y.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 19

Wanted—A first-class salesman familiar with the tin and hardware trade in Indiana and Illinois to represent an established manufacturing house making a line of roofings, sidings, ceilings, eaves trough, conductors, etc., and jobbers of tin plates and sheet metals. House well established and goods first-class. Write, giving references and salary, addressing "Manufacturers," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 18

SITUATIONS WANTED.

Wanted—Position for 1903 with a good stove house; can furnish first-class reference. Ohio, Ind., or Ill. preferred. Address "Stove Salesman," Care of The American Artistan, 69 Dearborn St., Chicago, Ill. 21

Situation Wanted—By a young man of 22 years of age; have had six years' experience in the retail hardware and can give good reference; want to go on the road for some hardware or stove house. Address "Road," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Situation Wanted—By an all around tinner, job worker and furnace man. Address Carl Storch, 1720 Broadway, Indianapolis, Ind. 21

Situation Wanted—Stove salesman of ability is open for an engagement for 1903. Iowa preferred. Al references. Address N. 2619 State, St. Joseph, Mo. 21

Position Wanted—As traveling salesman in Wisconsin and Minnesota. I am thoroughly posted on furnace work and have had twenty years' experience. Can furnish best of references. Will work either on salary or commission. Address "Box M.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 21

Wanted—By a young man with two years' experience in tin shop, a chance to finish the trade. O. S. Butler, Centralia, Mo. 20

First-class tinner and heating and ventilating engineer, 38 years of age, 22 years' experience in all branches of the trade, 9 years in present position, but for good reasons desires a change. Address "F. N. D.," care The American Artisan, 69 Dearborn St., Chicago, Ill. 20

Situation Wanted—First-class stove salesman with good established trade in Ohio, Pennsylvania, West Virginia, in habit of calling on best trade; fifteen years' road experience; have also traveled west nine years; best reference. Address "Best," Care of the American Artisan, 69 Dearborn St., Chicago, Ill. 20

Situation Wanted—Steel range business; an experienced and up-to-date man would like to communicate with some company about to start manufacturing. Address "Start," Care of The American Aritsan, 69 Dearborn St., Chicago, Ill. 19

Situation Wanted—A steady, permanent situation by Dec. 1st, by a first-class tinner; have had over 17 years' experience at general tin work and hot air heating; desire a position where I can have full charge of the shop and shop work, in a town of from 1,000 to 5,000. Can furnish best of references. Nothing but a steady, permanent position will be considered. Address M. B. Miles, Emmetsburg, Iowa. 19

SPECIAL NOTICES.

FOR SALE.

Complete outfit Eave Trough and Conductor Pipe Machines, 10-ft. Squaring Shears, and Roofing Machine. Address John H. Wilson, Malvern, Ohio, (Carroll Co.) 19

SPECIAL NOTICES.

FOR SALE—Chance Life Time
Profitable hardware business doing retail and wholesale trade. Stock $12,000 to $13,000; can be reduced in 30 days to $8,000. Located one of best towns central N. Y. State; population 45,000 and increasing. Liberal terms can be arranged on purchase. Investigation invited Address, Hardware Company, care The American Artisan, 69 Dearborn St., Chicago, Ill. 12

Wanted For 1903

Two First Class Salesmen for Southern Territory. Must be experienced Salesmen of unquestioned ability to whom liberal salaries will be paid.

RATHBONE SARD & CO.,
AURORA, ILL.

Wanted: an experienced japanner who is able to take care of shop of about twelve helpers. A good place for the right man.

Address "Japanner,"
Care of The American Artisan,
69 Dearborn St., Chicago, Ill. 20

First-class Furnace and Boiler Salesman for state of Wisconsin. One acquainted with the trade in this territory preferred. Address, giving full particulars, to

"Old Established," care of
American Artisan, 69 Dearborn St.,
CHICAGO, ILL. 20

Wanted: experienced Sheet Iron Worker, who can work on stoves and ranges, and invest $1,000 or more in the business. Good man wanted more than money.

Address "Good Man,"
Care of the American Artisan,
69 Dearborn Street, Chicago, Ill. 20

WANTED!

Salesman by a St. Louis manufacturer to sell Tinware, Kitchen Utensils and Hardware Specialties to retail trade in Nebraska and Northern Kansas; also Minnesota and Northern Iowa. No objection to side line if not conflicting. Address Box N. C., care THE AMERICAN ARTISAN, 69 Dearbo n St., Chicago, Ill.

There are Artists

in salesmanship as well as painting. We want an

ENERGETIC STOVE SALESMAN

Only those who have had experience as traveling stove salesmen need apply. Give and age experience.

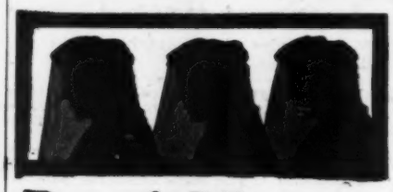
Detroit Stove Works,

CHICAGO, ILL.

Sunlight-Immunity

Sunlight stamped in the pillar means immunity from acetylene burner annoyances. Correct in theory and perfect in manufacture. Liberal trade discounts.

Sunlight Lava Mfg. Co.,
CHATTANOOGA, TENN.



Don't Mourn

because your competitor is getting more European business than you are as I can accept the agency for a few lines of American manufacture in British Isles and Continental Europe. Will give prompt attention to same. Can furnish references.

MONTAGUE COHEN
59 Paradise St., LIVERPOOL, ENG.

WILKE
Porcelain and Crystal
REFRIGERATORS.
Oak or tile exterior lined with ¼-inch plate glass.
BEST BY TEST.
Sold on exclusive agency basis.
THE WILKE MFG. CO.,
Anderson, Ind.

THE TRIUMPH TWINS

Fruit can wrench & jar holder. Big success. Sell year round

FORBES CO., 210 Sheriff St., Cleveland, Ohio.

MANUFACTURERS AGENT

I desire to correspond with manufacturers wishing a Western representative.

Can Furnish A-1 Commercial References.

Address

"HUSTLER," care of The American Artisan

69 Dearborn St., Chicago, Ill.

WILL BEAR INVESTIGATION

A remarkably rich mineral section of British Columbia is just now being opened up. It furnishes a peculiarly favorable field for investment. I will be glad to send you particulars. Address

OPPORTUNITY, care THE AMERICAN ARTISAN 69 Dearborn St., CHICAGO.

AGENCY WANTED

Salesman thoroughly acquainted throughout Pacific Coast and now representing first-class manufacturers wants the Pacific Coast Agency, on commission, for any goods handled by the stove and hardware trade. Is prepared to carry stock. Give full particulars. Address

"PACIFIC COAST,"

care The AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill

To California

Three trains Chicago to San Francisco and Los Angeles every day via

THE NORTH-WESTERN LINE
C&NWRY

The Overland Limited, the luxurious electric-lighted train, leaves Chicago daily at 8 p. m. Less than three days en route. Two other daily trains leave Chicago at 10 a. m. and 11.30 p. m. All the luxuries of modern travel. Write for illustrated booklet and full particulars.

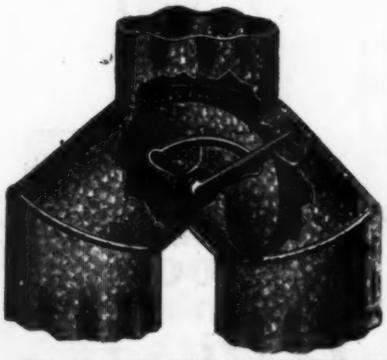
Chicago & North-Western Ry.,
W. B. KNISKERN,
PASSG'R TRAFFIC MANAGER.
CHICAGO.

THE MAN WHO SELLS STOVES
should lose no time in becoming acquainted with
DIXON'S GRAPHITE CEMENT
It is the most effective article in existence for the repairing of firebrick in stoves and furnaces. We will send you sample and prices free for the asking
Joseph Dixon Crucible Co., Jersey City, N. J.

MILWAUKEE CORRUGATING CO.

MILWAUKEE, WIS.

Manufacturers of



ROOFING	CORNICES	CEILINGS
Eave Troughs	Steel Roofing	
Cond. Pipe	(all kinds)	
(Rd. and Sq.)	Corrugated Iron	
Elbows	Curved Iron	
Hangers	Crimped Iron	
Cor. Cut-Offs	Brick Siding	
Pat. 11-14-99	Rock Face	
Cond. Hooks	Beaded Iron	
Trimmings	Metal Shingles	

TINPLATE -- GALVANIZED IRON -- SOLDER.

WE ARE THE ONLY AUTHORIZED MANUFACTURERS OF CORRUGATED CUT-OFFS—(BEWARE OF INFRINGEMENT.)

AMERICAN

You know the high reputation the word "American" enjoys. This reputation we jealously guard and consequently it means something in connection with sheet steel, galvanized sheets, roofing and ventilators of our manufacture.

Write Us for Catalogue.

AMERICAN STEEL ROOFING CO.

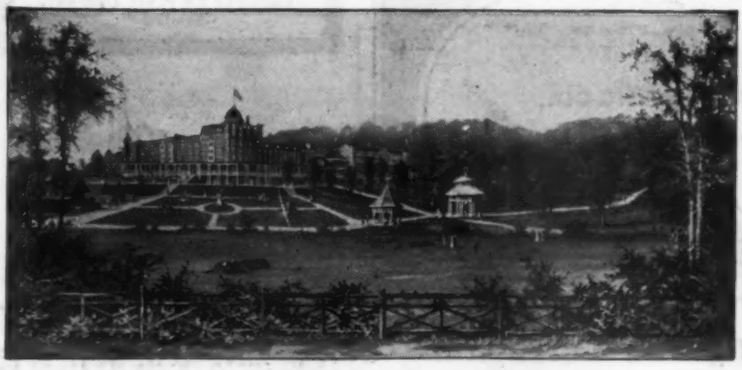
MIDDLETOWN, O.

Write us for Catalogue and Low Prices on BEST

Steel Roofing, Corrugated Iron, Etc.

We are large manufacturers of these goods and can save you money.

SYKES STEEL ROOFING CO. Chicago, Ill., and Niles, Ohio.



THE NEW HOTEL AT FRENCH LICK SPRINGS

IN THE INDIANA HIGHLANDS

Two Trains Daily, via Monon Route. City Ticket Office, 232 Clark St.

Garry Iron and Steel Roofing Co.

Roll Roofing.
Corrugated Iron.
Metal Shingles.
Clap-boards.
Siding.
Steel Bricks.
Window Casings.
Fire-Proof Shutters.
Eave Trough.
Conductor Pipe.
Elbows.
Cornice.
Skylights.
Finials.

Cor. Coe and Lake Streets, Cleveland, Ohio.

THAT PAPER IS THE CHEAPEST WHICH BRINGS THE BEST RESULTS IN PROPORTION TO ITS RATE, NO MATTER WHAT THAT RATE MAY BE.

J. H. Eller & Co.

MANUFACTURERS OF

Art Metal Ceilings, Cornice, Skylights, Ventilators etc.

Sheet Metal Specialties.

1106-1112 East 5th Str. Canton, Ohio

Metal Worker's Crayon.

UNIFORM DISCOUNT TO THE TRADE.

D. M. STEWARD MFG. CO.

CHICAGO, CHATTANOOGA. NEW YORK

IF

you think we do not make Canton Ceilings in classified designs, you are very much mistaken, as we have a large variety of beautiful patterns in classified designs, added to which our ceilings have the construction which admits of their being erected much faster than any other. It certainly pays to use a ceiling that can be quickly applied, as your profits depend entirely on the time occupied in their erection.

If interested in this class of work, write us. We can do you good.

Yours very truly,

The CANTON STEEL ROOFING CO.,

New York Agency 157 W. 23d St.

Canton, Ohio.

Pliability—ease of working and fitting around angles and corners—was one of the features of **MF** Roofing Tin that secured first prize for it at Paris last year. Next in value to the all-important question of a heavy tin coating, comes the ease of working—it saves waste of material and waste of time—makes *the roof that fits.*

MF ROOFING TIN

TRADE MF MARK

is the best roofing from every viewpoint. It is made by hand labor entirely. Every sheet must pass a rigid examination before it is boxed—and none but perfect plates are sold. Trade mark on every sheet. Ask your roofer for **MF** Roofing Tin, or write { W. C. CRONEMEYER, Agent, Carnegie Building, Pittsburg. for illustrated book on roofing.

AMERICAN TIN PLATE COMPANY, New York.

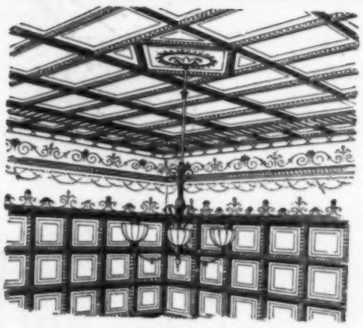
La Crosse Steel Roofing and Corrugating Co., La Crosse, Wis.

STEEL ROOFING

We are also manufacturers of

Eaves Trough
Conductor Pipe
Elbows **Mitres**
Hangers **Cut Offs**

All kinds. All gauges. Painted and Galvanized. Lowest Prices. Prompt shipments guaranteed. Send us your orders.



Some Dealers Don't Care

whether the metal ceilings they sell are artistic or not. That's where they make a mistake. The more artistic the ceilings they sell, the greater the chance of their building up a good demand for this class of goods. Every first-class ceiling erected helps sell others.

Berger's "Classik" Ceilings

BERGER'S TRADE MARK METAL CEILINGS

are the most artistic metal ceilings made. They adhere strictly to correct styles of ornamentation. They make it easy to decorate interiors in harmony of style throughout.

Berger's Classified designs are bound to greatly increase the popularity of metal ceilings. The wide-awake dealer should apply for an agency without delay.

The Berger Manufacturing Company

Canton, Ohio

New York Office: 210 E. 23rd St., New York, N. Y.
Philadelphia Office: 1218 Filbert St., Philadelphia, Pa.
New England Branch: 176 Federal St., Boston, Mass.
Western Branch: 19-21 S. Main St., St. Louis, Mo.

SPECIALTIES:

CEILING, ROOFING, SIDING, EAVE TROUGH, CONDUCTOR PIPE, ETC.

Art Metal Ceilings

For Interior Decorations.

Write for Catalogue and Prices.

We have 40 different designs to select from. Our Stamped Ceilings are the most perfectly embossed ceilings on the market.

Estimates Furnished on Special Work.

SPECIALTIES:

Steel Ceiling, Zinc and Copper Ornaments, Statuary in Bronze, Zinc and Copper, Crestings, Finials, Capitals, Galvanized Steel Horses for Merry-Go-Rounds, Copper Plated Ceilings in Antique Finish, etc., etc.

Friedley & Voshardt

194-202 Mather St., CHICAGO, ILL.

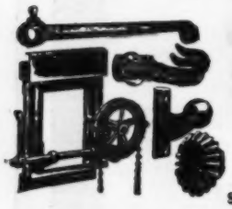
The O K Steel Brake.

The O K Steel Brake beats them all. Stronger, less expensive, more durable, works faster. Less freight charges. It is up-to-date. Sold by

H. WEIS & Co., 20 Cliff St., New York, N. Y.
JANNEY, SEMPLE, HILL & Co., Minneapolis, Minn.
C. SIDNEY SHEPARD & Co., Kansas City, Mo.
ILLINOIS ROOFING & SUPPLY Co., Chicago, Ill
NEW ORLEANS ROOFING & METAL WORKS, New Orleans, La.
HOLBROOK, MERRILL & STETSON, San Francisco, Cal.
PEDEN IRON & STEEL Co., Houston, Tex.

Dreis:, Andrews & Krump,
MANUFACTURERS, 3214 So. Halsted St., CHICAGO, ILL.

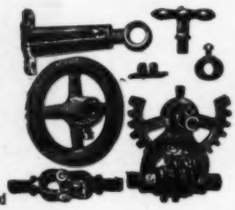
H. WEISS & CO.



20 Cliff St., New York.

SKYLIGHT GEARING AND CHAIN LIFTS

Tinsmiths' and Plumbers' Tools
Cornice Makers' Tools
Coppersmiths' Tools
Pipe Threading Machines
Second-hand goods bought, sold & exchanged



Ask Your Dealer For The **GEM SOLDERING FURNACE** AND YOU WILL MAKE NO MISTAKE

Always Ready.
No Smoke.
No Odor.
No Noise.
Unexcelled.
Unequaled.
Unrivaled.
Safe, Sure. Durable.
Made Only By
Thirty Years Experience.

Burgess Soldering Furnace Co.,
COLUMBUS, OHIO, U. S. A.

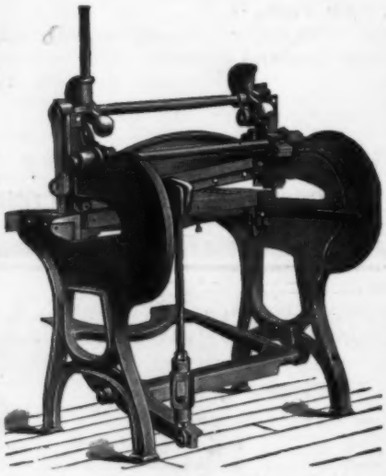
LATEST IMPROVED
GAP SQUARING SHEARS

[Treadle or lever combined] or Belt Power for light or heavy work, all sizes for squaring, trimming and slitting, also cutting triangular or square holes. 8 different styles.

IMPROVED COMBINED
PUNCH AND SHEARS

12 sizes, 10 to 18 in. blades [also arranged for cutting triangular or square holes]. Improved Rolls, Crimpers, Punches, etc.

Bertsch & Co.
CAMBRIDGE CITY, INDIANA.



W. J. BINKLEY, BELLEVILLE, KAN.
WRITES:

"I gain much valuable information from THE AMERICAN ARTISAN and would not think of running a tinshop without it."

BOWL.

Largest and Best Equipped Factory in the South for the Manufacture of

SAD IRONS, Country and Stove HOLLOW WARE, Ground and Unground; SUGAR KETTLES, ENGLISH POTS, Castiron SHOE LASTS and STANDS, KITCHEN and CORNER SINKS, GRATES, ETC.

REVERSIBLE CAST IRON SHOE LASTS AND STANDS.

WHY NOT WRITE FOR OUR CATALOGUE? It cannot fail to prove of interest and value to you.

ECCENTRIC STOVE KETTLE.

Blacklock Foundry
SOUTH PITTSBURG, TENN.

Postal Scale $1.00

Tells at a glance postage in CENTS on all mail matter. Capacity, 1 pound by half ounces. 3 inches high. Cuts down the stamp bill. Useful and attractive present. We make several styles from $1.00 in nickel, as shown, up to $6.00 in sterling. If dealer doesn't sell it, we prepay on receipt of price. Catalogue P. free.

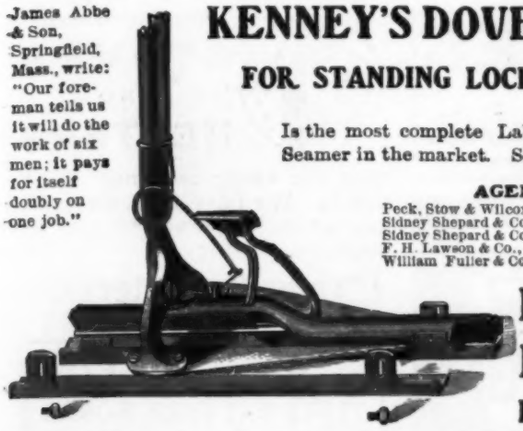
Pelouze Scale & Mfg. Co.
132 W. JACKSON BOUL. CHICAGO.

CORN CRIB HOLDS 400 BU.

Cheap, handy and economical. All dealers sell them. Write for prices. We manufacture Peerless Wire Fence, Lawn Fence Gates, etc.

THE DEMING FENCE WORKS
Cedar Rapids, Ia.

James Abbe & Son, Springfield, Mass., write: "Our foreman tells us it will do the work of six men; it pays for itself doubly on one job."



KENNEY'S DOUBLE SEAMER

FOR STANDING LOCK TIN ROOFING

Is the most complete Labor-Saving Double Seamer in the market. Send for catalogue.

AGENCIES:

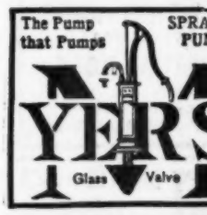
Peck, Stow & Wilcox, - - New York.
Sidney Shepard & Co., - - Chicago, Ill.
Sidney Shepard & Co., - - Buffalo, N. Y.
F. H. Lawson & Co., - - Cincinnati, O.
William Fuller & Co., - Baltimore. Md

Dwight Slate Machine Co.
HARTFORD, CONN.

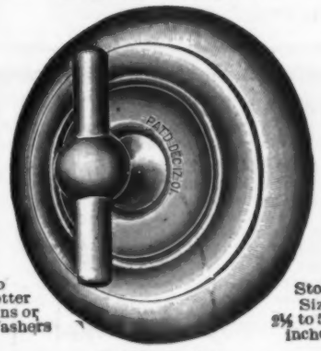
Fox Shaving Sets

contain the "King of all Razors," "The Fox." A good set for Holiday Trade. Send your order now. Trade Mark registered.

FOX CUTLERY CO.,
48 Center St., NEW YORK N. Y. CANANDAIGUA, N. Y. 928 Main St., DUBUQUE, IA.



Sheet Steel
DRAFT REGISTER
With Screws Complete.



No Cotter Pins or Washers

Stock Sizes 2¼ to 5¼ inches.

Send for price.

THE H. A. MATTHEWS MFG. CO.
SEYMOUR, CONN.

F.D. BURGESS

WAUPACA, WIS., WRITES, FEB. 5, 1901:

"I advertised a set of Tinners' Tools in your paper and have sold them, and I have received letters from parties wanting them, from all parts of the United States. That goes to show that The American Artisan has a great circulation."

PERFORATED METAL
THE ROBT. AITCHISON PERFORATED METAL CO.
303-305 DEARBORN STREET, CHICAGO, ILL.

The "Weber Junior" Pumper

Can also be used for other power purposes. Is all complete, ready to attach to pump. Equals 20 men pumping water. Uses but little gasoline. Is shipped crated completely erected, all connections made. Easy to start, any one can operate it. Every one guaranteed. Other sizes up to 50 H. P. Send for catalog. Weber Gas & Gasoline Engine Co. P. O. Box 1115B Kansas City, Mo.

Twin City Fence and Wire Works

Manufacturers of all kinds of Ornamental and Architectural Iron and Wire Work, Office Railings, Window Guards, etc.

Office and Salesroom: 330 East Sixth Street, ST. PAUL, MINN.

THE S. & S.

Patent Stove Pipe Thimble

Locks the Pipe from Pulling Out

Prevents pipe from pushing in and closing the draught. Cheap compared with the old style. Just think of the annoyance saved.

Sold to Jobbers and Dealers Only.
Mfgd. by Ask for Prices
CITY FORGE & IRON WORKS
DAYTON, OHIO.

Locations for Industries.

Manufacturing is rapidly developing along the lines of the Chicago, Milwaukee & St. Paul Railway. Industries on a large scale now extend to the Mississippi River with indications of reaching the Missouri. Machinery and all the higher classes of manufactured goods are now being exported from this business territory to all parts of the world.

The Chicago, Milwaukee & St. Paul Railway Company's 6,600 miles of railway, exclusive of second track, connecting track or sidings, traverses eight states, namely:

NORTH DAKOTA	MINNESOTA	NORTHERN MICHIGAN
SOUTH DAKOTA	IOWA	WISCONSIN
Express Passenger Trains, Fast Freight Trains Throughout.	MISSOURI	ILLINOIS

which comprise a territory full of natural resources and advantages. This railway is geographically well located in relation to the great markets and distributing centers. Beyond its lines is a vast and rapidly developing territory extending to the Pacific Coast.

The Company gives unremitting attention to the development of local traffic along its lines and, with this in view, seeks to increase the number of manufacturing plants on its system, either through their creation by local enterprise or the influx of manufacturers from the east. It has all its territory districted in relation to resources, adaptability and advantages for manufacturing. Specific information furnished manufacturers in regard to suitable locations. Address,

LUIS JACKSON,
Industrial Commissioner C., M. & St. P. R'y.
660 Old Colony Bldg., Chicago, Ill.

CHRISTIAN PROBST, HARTFORD, WIS., WRITES . . .

"I don't doubt the enormous circulation of your paper. I got all kinds of offers from all kinds of people. Please discontinue my adv. because I have all the jobs I can take care of."

REPAIRS FOR ALL STOVES AND FURNACES

Stove Reds, Paste, Stove Putty, Stove Knobs, Pipe Dampers, Mica, Etc.

Wm. T. Dust Co., Detroit.

REPAIRS FOR ALL STOVES AND RANGES.

A. G. BRAUER, 316-318 NORTH THIRD ST. ST. LOUIS MO.

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

UNCLE SAM DAMPER! THE PIONEER STEEL DAMPER

FURNACE PIPE DAMPER.

The handle is enameled wood, will not heat, rigidly clamped and can ot come off. The spring is not affected by heat. The stem is a steel rod, all one piece and nothing to fall apart; pointed and easily driven through the pipe. The Damper Plate is made of cold rolled pickeled steel, corrugated to stiffen it and pre ent warping. We call special attention to lightness and strength of these Dampers and their desirability for FURNACE Pipes.

"The Difference in Weight Pays the Freight."

Ask Your Jobber for the "UNCLE SAM."

SAYRE STAMPING CO., Sole Manufacturers, SAYRE, PA.

Heater Pipe Plates

Ic....20x26, 20x28, 20x29½, 20x32½, 20x39.
Ix....20x26, 20x28, 20x29½, 20x32½.

We have a large stock and can make prompt shipment

Illinois Roofing and Supply Co.
23 Lake Street, CHICAGO

R. W. BROKOPP, Medford, Wis., writes:

"I should not be without THE AMERICAN ARTISAN even if you asked twice the price."

DO YOU WANT **STOVES AND HEATERS** that are easily sold and STAY SOLD. We have been very successful in designing patterns for such.

The Gobeille Pattern Co.
CLEVELAND, OHIO.

The GEO. W. COPE STOVE PATTERN WORKS
Randolph and Atwater Sts.
DETROIT, MICH.

Weller Stove Pattern Co.
1110-1112-1114 State St.
QUINCY, ILL.

THE MILWAUKEE PATTERN WORKS.
SKETCHES AND DESIGNS FOR
STOVE AND HEATER WORK
OF ALL KINDS.
Correspondence Solicited.
505-507 Cedar Street. MILWAUKEE, WIS.

BARKEEPER'S FRIEND.

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver can all be cleaned and polished with it easier than with anything else.

Price 25c per lb.

Let us send you a free sample.

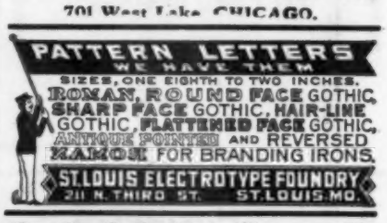
GEO. WM. HOFFMAN,
295 E. Washington St.,
INDIANAPOLIS, - IND.

FOR SALE BY JOBBING TRADE.

"ALUMININE"

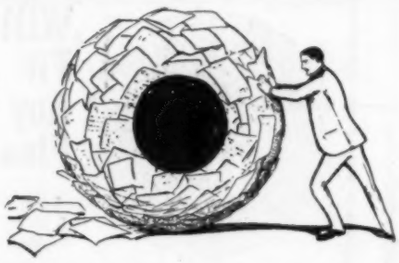
The only fire-proof Aluminum finish for stoves. Can be used on all kinds of iron work.
Large Cans, (6 oz.) $2.00 per doz.

ALUMININE PAINT & POLISH CO.,
701 West Lake, CHICAGO.



E. J. Schultz, Kewanee, Ill., writes:

"I can say that my advertisement in The American Artisan convinces me that I cannot afford to be without your paper."



There's a Big Bunch of Orders

coming to us every day from the trade in al lsections for **Black Silk Stove Polish.**

Is your order in the bunch, Mr. Dealer?

If not, it will pay you to investigate its merits.

Black Silk Stove Polish Works, STERLING, ILL.
LEWIS D. WYNN, Proprietor

Acme Oven Thermometer

STYLE "D"

CLOCK FACE THERMOMETER

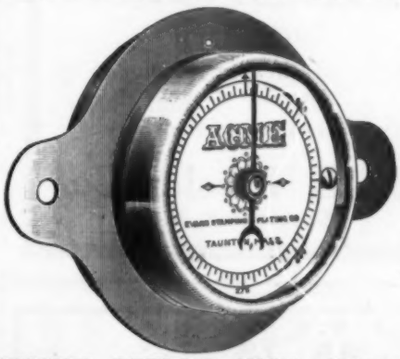
We claim to have as good a thermometer as there is and better than most of them that are on the market to-day.

All our thermometers are carefully tested by heat and each one is fully guaranteed.

The Acme Oven Thermometer is made in four styles.

Style "A" and "E" have 3 in. Dial
" "C" " "D" " 2⅝ "

Our Style "E" has a flat back and can be adjusted to a drop door where a smooth surface is required.



This cut shows our Style "D" or Clock Face Thermometer. The hand working from the center gives it considerable more movement and a change in the temperature of the oven is quickly noticed on dial.

Write us for circular and quotation.

MANUFACTURED BY

Evans Stamping & Plating Co.

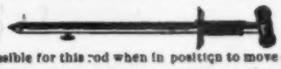
TAUNTON, - - - MASS.

C. H. MATTHEWS, DETROIT, MICH., (Western Agent.)

The YANKEE Hot Air DAMPER (IMPROVED.)

HOT AIR. THE YANKEE EXCELS. SMOKE PIPE.

Above All—Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest-working and neatest damper on the market.



It is impossible for this rod when in position to move either way.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ¼ in. cold rolled steel and slips into damper very smoothly. Sample sent to any Dealer without charge.

The S. M. HOWES CO., Manufacturers, 40-46 UNION ST., **Boston, Mass.**

AD-EL-ITE SPECIALTIES ARE LEADERS AND MONEY MAKERS.

MAKE YOUR HOME attractive and beautiful by using

AD-EL-ITE TINTED ENAMELS

—weather and wear proof—

PERFECT DURABLE LUSTROUS

Refinish your iron beds, walls, furniture and a thousand other articles at a trifling cost. Attractive advertising matter and signs. A good, live dealer wanted in every town. Further particulars free.

ADAMS & ELTING CO., Chicago.

DISTRIBUTING AGENTS FOR

AD-EL-ITE FINISHES:

FORMAN, FORD & CO., Minneapolis, Minn.
PATEK BROS., Milwaukee, Wis
FRANK S. DE RONDE CO., New York and Philadelphia.
THE WORTHINGTON CO., Richmond, Va.
BARRON BOYLE CO., Cincinnati.
PHELAN & FAUST, St. Louis, Mo.
DENOON BROS. PAINT & GLASS CO., Pittsburg.
DEUTHER & BECK, Buffalo, N. Y.
CLEVELAND WINDOW GLASS CO., Cleveland, Ohio.
BRIDGES, McDOWELL CO., Louisville, Ky.
DAYTON PAINT & SUPPLY CO., Dayton, Ohio.
JONES HARDWARE CO., Richmond, Ind.
OLNEY & McDAID, Clinton, Ia.

BONNER, PRESTON CO., Hartford, Conn. A. M. HUGHES PAINT & GLASS CO., Kansas City, Mo.
NORTON PAINT & HDW. CO., Toledo, Ohio. JOHNSON, WOODBRIDGE CO., Indianapolis, Ind.
CHAS. H. DAUCHY CO., Troy, N. Y. C. A. REEVE & CO., Syracuse, N. Y. F. P. VAN HOESEN, Rochester, N. Y.
CHAS. RICHARDSON CO., Boston Agents for New England.

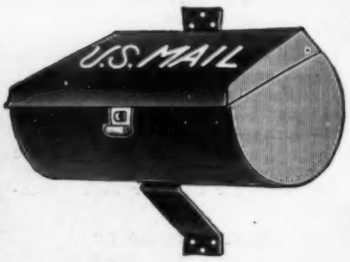
JOHN H. ROBERTS,

Writes: "I consider **The American Artisan** a great help to any tinner or any man in business."

MUNHALL, PA.

WHITE LILY

WHAT DOES IT MEAN?



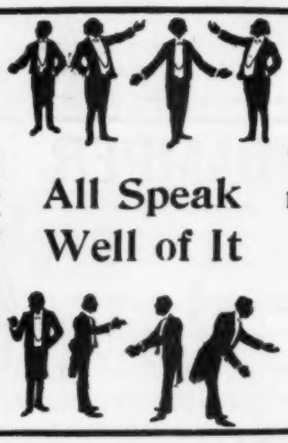
The Hessler

Rural Mail Box

Best and Cheapest. Adopted by the Government.

Write for Prices.

H. E. Hessler Co.,
Syracuse, N. Y.



All Speak Well of It

The Forest City Paint & Varnish Co.

1182 HAMILTON ST.,
CLEVELAND, O.

Buckeye Brand

Should be in every high class dealers stock.

Buckeye Paint & Varnish Co.
TOLEDO, OHIO.

BIG FOUR ROUTE

CHICAGO to INDIANAPOLIS, CINCINNATI, LOUISVILLE, THE SOUTH AND SOUTHEAST

PEORIA, ST. LOUIS, INDIANAPOLIS, CINCINNATI, LOUISVILLE to NEW YORK AND THE EAST

W. P. DEPPE, A. G. P. & T. A. — W. J. LYNCH, G. P. & T. A.
CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago

Will Fit Any Flue

From 5 to 7 Inches.

THE GLOBE FLUE STOP

Brass Finish and Nicely Decorated, in fact the neatest, and best selling flue stop for live dealers to handle.

Packed 1 doz. in a box.

Write to the factory direct as we employ no traveling salesmen.

STUBER & KUCK,
Manufacturers of Tinware and Specialties.
Peoria, Ill.

ARE YOU NOT ENTITLED TO A GOOD CHRISTMAS PRESENT?

"System Saves Time and Money"

"Boys, my father makes money by always having a place for his latest Catalog, Circulars and Price lists. See?"

WARREN'S CATALOG AND STATIONERY CABINET.

AN OFFICE BOY IN ITSELF.

REMOVES WORRY. HAS A PLACE FOR EVERYTHING.

Never delays in giving a prompt answer, telling correctly where each article is.

Saves time, money, trouble and temper by filing accurately all classifications. Insures quick service and exactness.

One of the most practical Filing Cases for the Merchant and Busy Man ever devised.

IT WORKS FOR YOU.

AND MAKES MONEY FOR YOU EVERY DAY IN THE YEAR.

IT PAYS FOR ITS COST IN THE SERVICE IT RENDERS.

J. D. Warren Mfg. Co.

CHICAGO.

Expert Designers of Hardware Shelving and Correct Arrangement of Stock. Hardware Shelving to suit any Store, Person or Purse.

CUTLER HARDWARE CO.

WATERLOO, IOWA.

WHOLESALERS OF

Shelf Hardware, House and Bank Trimmings, "Cutler's Easy" Tools and Cutlery.

MAIL ORDERS AND INQUIRIES GIVEN SPECIAL ATTENTION.

The Superior Cream Separator

The Handiest and Best Cream Separator Made. Iron Legs and a Strainer With Each One.

WE GUARANTEE THEM

For Prices and Exclusive Agency Write

SUPERIOR MFG. CO.,
INDIANAPOLIS, IND.

METAL GOODS

CEILINGS, SIGNS, LETTERS, STATUARY.

Dies made and modeled for Stamping, Casting and Illustrating.
We make a specialty of Advertising Signs.

THE ART MODELLING WORKS,
832 MARKET STREET, CAMDEN, N. J.

FOR DELICIOUS TOAST

The Fairgrieve Patent

GAS TOASTER

RETAILS 25c

This may be a new article to you, and it deserves your attention.

IT SAVES time by toasting evenly and quickly on gas, gasoline or blue flame oil stoves directly over flame, and is ready for use as soon as placed on the flame.

IT SAVES fuel by confining the heat in such a manner that all heat developed is used. The only toaster for use over flames that leaves toast free from taste or odor. Made of best materials. riveted joints, no solder, lasts for years

ASK YOUR JOBBER.

FAIRGRIEVE TOASTER MFG. CO.,
A. C. SISMAN, Gen. Mgr.
289 Jefferson Ave., Detroit, Mich.
CANADIAN BRANCH, 295 College St., Toronto, O

Geo. W. Brown, Jr., Hillsboro, Ill., writes: "You may kindly discontinue our WANTED TINNER adv. that you have so kindly carried for us the past three issues. I have received replies from Vermont to Dakota and think that we have secured a good man.

GENUINE

HUNTER'S SIFTERS

We are the sole manufacturers and there is no other Sifter made that has the reputation or is any comparison to the Genuine Hunter's.

The only Sifter with a loose cap on the handle, so as to clean out the flour that accumulates in it while the Sifter is in use.

THE BEST IN THE WORLD

Combined Mixer, Scoop, Measure, Dredger, Rice Washer, Pumpkin, Tomato, Wine, Starch and Fruit Strainer.

The Fred J. Meyers Mfg. Co.
HAMILTON, OHIO

...OTHER... HARDWARE DEALERS

Find These Chimneys Profitable.

WHY SHOULDN'T YOU?

SELLS AT SIGHT.

WARREN'S FOLDING INTERLOCKING MICA CHIMNEY.

PATENT APPLIED FOR

Some Points of Superiority over Other Mica Chimneys.

1. Transmits ten per cent. more light.
2. Casts no shadow.
3. Can be easily and satisfactorily cleaned.
4. Takes little room, a whole gross occupying less space than two dozen ordinary chimneys.
5. Shipping weight, one-fifth less.
6. In use, has fine look of a glass chimney

Fig. 1

Fig. 3

Fig. 2

TO FORM CHIMNEY—Carefully roll the flat sheet Fig 1, bringing the metal strips AA together as shown in Fig. 2 then interlock them, completing cylinder, Fig. 3.
TO CLEAN—Unlock and lay out flat; wipe carefully with a soft cloth, moistened with water or vinegar.

Order Sample Dozen, No. 38, 3 piece 8 inch.

SOLE MANUFACTURERS

EUGENE MUNSELL & CO.,

NEW YORK, 215 Water St. — CHICAGO, 117 Lake St.

Louis O. Schuetz,

Evanston, Ill., writes:

"I thank you very much for putting my adv. in THE AMERICAN ARTISAN. I have a man now, and would like to have you cancel the adv., because we are getting letters from all parts of the country."

"Yankee" Screw Drivers

No. 12—RATCHET, WITH STUB BLADE

No. 11—RATCHET, RIGHT AND LEFT HAND AND RIGID

No. 15—RATCHET, WITH FINGER TURN ON BLADE

No. 30—SPIRAL RATCHET, RIGHT AND LEFT HAND AND RIGID

HAVE NO EQUALS.

THEY ARE SOLD BY LEADING JOBBERS.

Send for "Yankee" Tool Book.

North Bros. Mfg. Co., Philadelphia, Pa.

BOLT AND SCREW CASES

"Revolving"

Will pay for themselves ten fold in saving of time. In general use by modern hardware dealers, machine shops, bicycle stores, pattern shops, etc.

For Sale by Hardware Jobbers.

For Catalogue "d" Address the Manufacturers

AMERICAN BOLT & SCREW CASE CO.
DAYTON, OHIO.

"Doran Lights"

Look like Electric Arc Lights but give

More Light Whiter Light Steadier Light and Make Your Light Bills Lighter!

These are reasons why they are everywhere being adopted for lighting Stores, Factories, Workshops, Churches, Halls and other public places.

Don't Pay Big Gas and Electric Light Bills

The following is only one from hundreds of similar endorsements received from representative business men in all parts of the United States and Canada:

"GENTLEMEN:—We have used six of your lights in our store for the past year and cannot speak too highly of them. Our store is 50 ft. by 157 ft., and these six lights make it bright as day at an expense of about an eight that of gas or electricity and they give a much better light. Yours truly, BARRETT HARDWARE CO., Joliet, Ill."

As many lights as desired can be operated in one system and "Doran Lights" may be used anywhere. Gasoline-fed under-air pressure through a fine wire tubing—You own your own lighting plant. Complete descriptive, catalogue, testimonials, etc., mailed free.

ACORN BRASS MFG. CO.
222 Fulton St., CHICAGO, ILL.
Good Agents Wanted everywhere. Exclusive territory allowed.

L. L. CLINE DETROIT

THE BEST LIGHT.

SUPERIOR TO ELECTRICITY

and costs less than Kerosene Oil. The wonder of the age!

A 100 Candle Power Light for one week for 2 cents.

Each Lamp Makes and Burns Its Own Gas!

NO ODOR! NO SMOKE! NO DIRT!

Perfectly safe. Over 100 styles for indoor and outdoor use. Every lamp warranted.

Sells at Sight.

Agents coining money. Write at once.

The Best Light Co.
217 E. 5th St., Canton, O.

BEST BY TEST.

THE NULITE VAPOR GAS LAMPS

For Home, Store and Street.

The Nearest Approach to Sunlight and Almost as Cheap.

ARC ILLUMINATORS 750 CANDLE POWER. 7 HOURS TWO CENTS.

Make your stores light as day. A Hardware house writes us:

"We like your lamps so well we are now working nights instead of days."

We also manufacture TABLE LAMPS, WALL LAMPS, CHANDELIERS, STREET LAMPS, Etc. 100 Candle Power seven hours ONE CENT. No wicks. No Smoke. No Odor. Absolutely safe. THEY SELL AT SIGHT. Exclusive territory to good agents. ☞ Write for catalogue and prices.

CHICAGO SOLAR LIGHT CO., Dept. 9. CHICAGO.

TINNERS FIND EMPLOYMENT

By advertising and using

THE POWERS AUTOMATIC CHIMNEY TOPS.

They make chimneys draw, give tinners employment making stocks, and give the dealers profit.

Sold by Hardware Jobbers and Dealers Made only by

POWERS BROS.
STREATOR, ILL.

This cut free to dealers.

BURT HOSTERMAN, MARSHFIELD, WIS., Writes:

"I do not think any hardware man has any business to start a hardware store without your paper."

New Combination Plyer

Forged from the finest Brescian steel. It's a great big improvement over the old kinds. Can be used as a gas plyer, wire cutter, wrench, screw driver and flat nose plyer.

Send for the Fourth Edition of the *GREEN BOOK* of Hardware Specialties for details.

Utica Drop Forge & Tool Co.,

Manufacturers of Nippers and Plyers.

SMITH & HEMENWAY CO.,

296 Broadway, NEW YORK CITY.

MFRS. OF CUTLERY AND HARDWARE SPECIALTIES.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS Sold by All Hardware Dealers

NEW BRITAIN, CONN.

The Enterprise Sausage Stuffer and Lard Press

Made in 8 Sizes and Styles. TINNED or Japanned.

Each Iron Cylinder is Bored True

so that when Stuffing all the material must pass through the Spout.

The Lips on the Tin Cylinder

in pressing lard, prevents burning of hands when the Cylinder is taken out for the purpose of removing Hot Cracklings.

The New Patented Spout

furnished with each Stuffer is Corrugated, which prevents air entering the Casing, thus assuring preservation of Sausages.

No. 25, $5.50.

Order from your Jobber. Send for Descriptive Catalogue

The Enterprise Mfg. Co. of Pa.

N. Y. Branch, 10 Warren St. Philadelphia, Pa., U. S. A. San Francisco Branch, 105 Front St.

Lava Enameled Ware

is made from steel rolled especially for this purpose. It is covered with three coats of a very hard and elastic enamel, the surface of which is as smooth as the most delicate of china. The enamel is free from lead, antimony and arsenic.

Cleveland Stamping & Tool Co.

Cleveland, O.

THIS LOCK can neither be forced with a jimmy nor opened from the outside. It is as secure when set for ventilation as when closed, and in no instance has it failed to successfully resist the attack of Burglars, Porch climbers, and sneak thieves; can be put on without cutting frame or sash at moderate cost and is fully endorsed by all people who are protected by it. Send for booklet of photographed testimonials.

Send for catalogue.

Harley Burglar Proof Ventilating Sash Lock Co.

92 La Salle St., CHICAGO.

Faith in Advertising.

WITHOUT newspaper announcements no man who has commodities to sell or services to render can achieve as high a degree of success in business as he could with judicious advertising; and the success which newspaper publicity brings is worth many times its cost. A leading merchant of Syracuse (New York) says: "Most of the owners of large mercantile establishments who use newspaper space had their start under the same conditions that nine-tenths of the small merchants work under. They have had faith in advertising and the courage to buy space."

YOU ARE IN BUSINESS TO SAVE MONEY—THEN WHY NOT BUY YOUR

WASH BOILERS

Direct from the manufacturer? I manufacture all kinds and sizes, all with pieced covers.

Nos. 7, 8, 9, IC, tin bottoms. Nos. 7, 8, 9, IC, with galv. bottoms. Nos. 7, 8, 9, IC, with cop. bottoms. Nos. 7, 8, 9, IX, cop. bottoms. Nos. 8, 9, IXX, made of one piece. The body, Nos. 8, 9, IXXX, with 16-oz bottom. Nos. 7, 8, 9, IC cop. rim. Nos. 7, 8, 9, IX, cop. rim. Nos. 8, 9, IXXX, cop rim. Nos. 7, 8, 9, IXX, cop. rim. Nos. 7, 8, 9, all galv. wash boilers. Nos. 8, 9, IXX, top. Nos. 8, 9, IXX, top cop. rim. Nos. 7, 8, 9, 12-oz cop. Nos. 7, 8, 9, 14-oz cop. Nos. 7, 8, 9, 16-oz cop.

Packed ¼ doz. and ½ doz. crates. I take and ship orders from ½ doz. to 100 doz. on short notice.

Try a sample order and convince yourself. I have no agents and other expensive office help so to increase the cost, therefore I can undersell all others in this line. Write for prices.

P. MOSHIEK, 421 So. Halsted St., CHICAGO, ILL.

Peoria Washing Machines.

BEST IN THE MARKET.
MADE WITH BALL-BEARINGS.

Have a Compound Lever Handle which greatly reduces the work of wash days. The motion used in vibrating the handle takes the strain from the back and lets the arms do the work with a great reduction in labor.

Send for Catalogue.
Secure the Agency.

CLARK, QUIEN & MORSE,
PEORIA, ILL.

Do You Know

That the **O. K. WASHING MACHINE** is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.

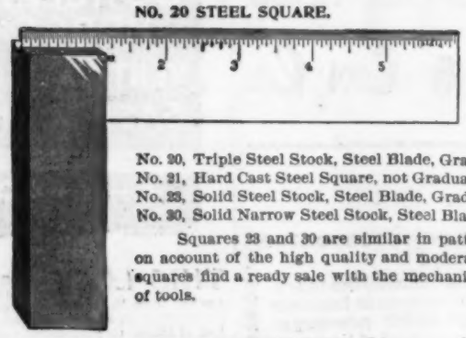
Write us for Circulars and prices.

H. F. BRAMMER MFG. CO. Dept. B **DAVENPORT, IOWA**

DISSTON MACHINISTS'

SQUARES.

NO. 20 STEEL SQUARE.



Tried Inside and Out.

—QUALITY—
SUPERIOR

—FINISH—
ACCURATE.

No. 20, Triple Steel Stock, Steel Blade, Graduated, 1-32-inch.
No. 21, Hard Cast Steel Square, not Graduated.
No. 23, Solid Steel Stock, Steel Blade, Graduated, 1-16-inch.
No. 30, Solid Narrow Steel Stock, Steel Blade, not Graduated.

Squares 23 and 30 are similar in pattern to No. 20, and on account of the high quality and moderate price these two squares find a ready sale with the mechanics using this class of tools.

SEE CATALOGUE FOR FULL LINE.

Henry Disston & Sons, INC.

KEYSTONE SAW, TOOL, STEEL AND FILE WORKS,
PHILADELPHIA, PENNA.

"Oh My! Oh Me!"

"Send a plumber up quick. The water and gas are frozen up."

Usually many such calls are received after each cold night. *Are you ready to care for them quickly?* Remember that time counts and your competitor may be better fitted than you. *It will pay you to have several TORCHES* on hand ready for such calls. A No. 32 Torch will be sure to please. It is quart size and has a strong generator, which in cold weather is a necessity. The flame can be turned on the frozen pipe, or soldering coppers may be heated. Jobbers sell at factory price, or we will send by paid express upon receipt of $3.50. *Your money back if you are not pleased.* Our Catalog is free.

$3.00 Net.

CLAYTON & LAMBERT MFG. CO.
DETROIT, MICH., U. S. A

Cash Registers.

The Standard Cash Register wherever used by hardware dealers gives perfect and profitable satisfaction. Many thousands say so. Try one for profit. We have complete supply. Also Paper for all kinds of cash registers. Write for particulars.

J. N. BIDDLE & CO.
5479 Lexington Ave., CHICAGO.

TACKS

TOWER M'F'G. CO.
ELM & FRONT STS.
CINCINNATI, O.
MANUFACTURERS

NEWTON'S
LATEST IMPROVED
DEHORNERS

Save time and money by dehorning your cattle. Write us for special information on the subject.

H. H. BROWN MFG. CO.
DECATUR, ILL.

Heating and Ventilating Buildings.

By R. C. Carpenter.

Price, $3.00

For Sale by . . . .

Daniel Stern,
69 Dearborn St. CHICAGO.

1188

Pages in our new 12⅜x9¼ inch catalogue which not only illustrates our large and complete stock, but is also a compilation of valuable information relative to prices, weights, etc. It contains a few important facts regarding freight classification and class rates on each and every item found in its pages

LEE-GLASS-ANDREESEN HARDWARE CO., Omaha, Neb.

Wholesale Hardware

Farwell, Ozmun, Kirk & Co.,

ST. PAUL, MINN.

GENERAL HARDWARE
- CUTLERY
- BICYCLES
- BUTCHERS' SUPPLIES

BUILDERS' HARDWARE
- SPORTING GOODS
- PAINTS, ETC.
- STOVES AND RANGES

RED HOT SELLER

GLOGAU'S
Alcohol-Gas Stove.

FAST SELLER wherever shown or exhibited. A boon for the **Sick Room, Nursery, Camp, Light Housekeeping, Incubator, etc.**, or wherever gas is not available or desirable.

Makes its own gas; is portable; produces a lot of heat for little money. **Consumes but 2 cents worth of alcohol in an hour; burns wickless; odorless.** Cannot explode; can be upset without spilling the alcohol and never gets out of order. Weighs but 8 ozs.

For sale at your jobbers. Price to retailers, $8.00 dozen.

Sample sent postpaid on receipt of 70 cents, by

GLOGAU & CO.,
17 QUINCY ST. CHICAGO.
Agent Wanted for Mexico.

"ROME"
NICKEL PLATED COPPER WARE

Tea Kettles, Range Kettles, Tea and Coffee Pots, Wash Boilers, Etc.

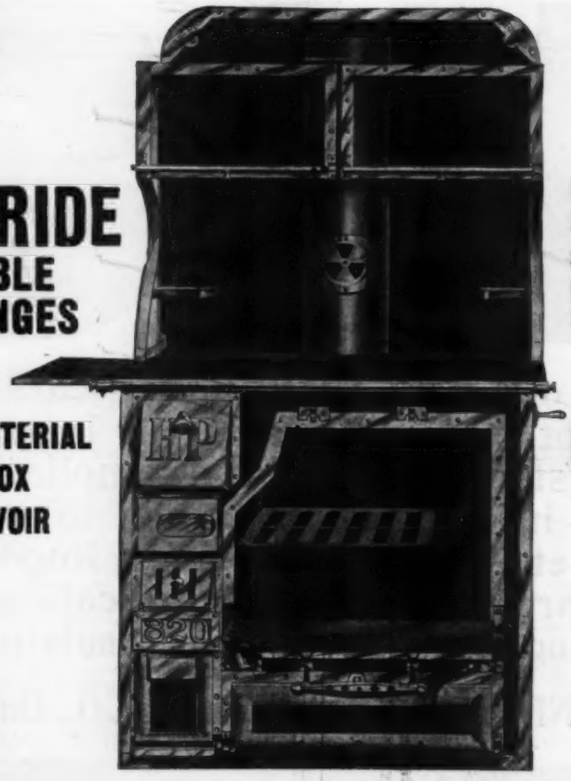
ROME MANUFACTURING COMPANY, ROME, N. Y.

WRITE US FOR PRICES. **Address Department A.**

HOME PRIDE
MALLEABLE STEEL RANGES

ARE THE BEST

HEAVIEST MATERIAL
BEST FIRE BOX
BEST RESERVOIR
BEST OVEN



NO. 16 GAUGE, WELLSVILLE BLUE AND SAME GAUGE BLACK ENAMELED WITH BLUE STEEL DOOR LININGS. RIGHT AND LEFT HAND FLUSH RESERVOIRS.

Manufactured by the

HOME PRIDE RANGE CO.
MARION, IND.

IT CLEARS THE BAR!

The customer who sees our trade mark on a piece of enameled steel ware or tinware looks no farther for quality. No process of manufacture can produce anything better. He knows it. Dealers minus this mark are minus trade. The dealer who has it has a profit story to tell. It is no trouble to choose between the two. Simply write to nearest office for catalogues and prices.

NATIONAL ENAMELING & STAMPING CO.

NEW YORK BALTIMORE CHICAGO ST. LOUIS NEW ORLEANS MILWAUKEE

Standing Seam and Slate Roof
(PATENTED)

Snow Shoe Irons

No snow rails need be used unless desired. The lugs clinch through the seam easily but securely.

SEND FOR CATALOG

BERGER BROS. CO.

Manufacturers of Tinners' Hardware and Roofers' Supplies. PHILADELPHIA, U. S. A.

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.

Stays where you put it, and is absolutely soot and smoke proof.

Made either plain or decorated.

Send for miniature sample and prices.

Welling Manufacturing Co.,
COLUMBUS, O.

Clouds of Smoke

Are pouring from
IWAN'S REVOLVING CHIMNEY-TOPS
EVERY DAY

Used all over the U. S. The following and 54 other jobbers sell them:

Berger Bros. Co., Philadelphia, Pa.
Townley Metal & Hardware Co., Kansas City, Mo.
C. W. Hackett Hardware Co., St. Paul, Minn.

Write for Prices. Manufactured by

IWAN BROS., - STREATOR, ILL.

SPERRY'S SUGAR KETTLES.

Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your Jobber for them or write us.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
BATAVIA, ILL.

American Family Scale.

BEST IN THE WORLD.

It is made of STEEL, TIN or BRASS Scoop Top.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20 pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use, and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY

AMERICAN CUTLERY CO.
CHICAGO, ILLINOIS.

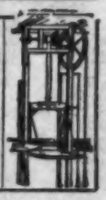
Said the Old Man:

"I can't praise the Cortright Metal Roofing too highly. I haven't used any slate, wood or plain tin on the roofs of my houses for ten years, and that's why I don't have roof repairs to pay for."

Booklet Free

CORTRIGHT METAL ROOFING CO.
Philadelphia and Chicago.

ELEVATORS



Improved, Quick and Easy Rising Steam and Hand Power.

KIMBALL BROS. CO.
1061 9th St. Council Bluffs, Iowa
OMAHA BRANCH, 108-110-112 N. 11th St.

HOMESEEKERS EXCURSIONS

On FIRST and THIRD TUESDAYS in each Month to **VIRGINIA**

Via NORFOLK & WESTERN RAILWAY

For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address

ALLEN HULL, D. P. Agt., Columbus, Ohio

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

Don't Be Deceived but insist on

McClure's Genuine Charcoal Iron Redipped Roofing Tin.

McCLURE & CO.,
Manufacturers of Tin Plate.

PITTSBURGH, PA., 211, 213 & 215 Second Ave.
PHILADELPHIA, PA. 115 North 7th Street.

THE "CENTENNIAL" Rain-Water Cut-Off

The strongest, most durable, and cheapest CUT-OFF on the market.

The only single Cut-Off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for. Manufactured only by

Cooney & Geiger, 19 and 21 N. Sooth St., INDIANAPOLIS, INDIANA.

"PULLMAN" Sash Balances

Are you selling them?
In use Everywhere.
Look for the Metal Tapes in All New Buildings.
Folder No. 2 sent free.

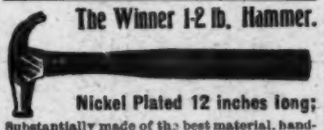
PULLMAN SASH BALANCE CO.
Rochester, N. Y., U.S.A.

EXCELSIOR FOR PACKING PURPOSES

Ask for price F. O. B. Your station.

THEO. P. HUFFMAN & CO.
648 & 650 W. 34th Street, NEW YORK CITY.

The Winner 1-2 lb. Hammer.



Nickel Plated 12 inches long;
Substantially made of the best material, handsomely finished Hickory handle. Full line of 10c goods.

FRANKLIN SPECIALTY CO.,
Boston Office: 64 Federal St.
629 Franklin St., READING, PA.

We Make a Specialty of

FURNACE MEN'S SUPPLIES

Heater Pipe Plates.

IC.....	20-26	20-28	20-29½	20-32½
IXL.....	20-28	20-29½	20-32½	20-39
IX.....	20-28	21-32½	20-39	.....

Asbestos Cement, Paper and Anchor Paste, Excelsior and Perfection Hot Air Pipe, Jack Chains, Pulleys, U. S. Dampers and Clips, Hot Air Registers, Ventilators and Face Plates.

THE J. M. & L. A. OSBORN COMPANY

Cleveland and Columbus, Ohio.

STEVENS

SINGLE BARREL HAMMERLESS GUN

Our Hammerless Gun has just been offered to the trade, and indications point to its being the most popular gun ever introduced. It has the simplest mechanism of any hammerless gun. It has

A NEW COCKING DEVICE
AN AUTOMATIC SAFETY
AN AUTOMATIC SHELL EJECTOR

Made in 12, 16 and 20 gauge, popular lengths and weights

PRICE $12.00

THEY WILL SELL AT SIGHT. ORDER AT ONCE

Your Jobber can supply our Goods. Send for Catalog

J. STEVENS ARMS & TOOL CO.
No. 245 BROADWAY
CHICOPEE FALLS, MASS.

The "Globe" Ventilator

In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

For Perfectly Ventilating

Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

Smoky Chimneys Cured.

"Globe" Ventilated Ridges. Send for Pamphlet.

Manufactured by
Globe Ventilator Co., Troy, N.Y.

The FINEST SAWS On Earth Bear the ATKINS Brand

ATKINS ALWAYS AHEAD

ATKINS HIGH GRADE SILVER STEEL SAWS

Possess an Individuality Entirely Their Own.
They are Distinctively "ATKINS."

All Up-to-Date Dealers Find Them Easy to Sell.

They Have The Call And Have Come to Stay

Skilled Mechanics Pronounce Them The Fastest and Easiest Cutters, and Finest Saws Made. They "Hang" Just Right, too.

E. C. ATKINS & CO. Factories and Home Office, INDIANAPOLIS, IND.
BRANCHES—New York City, Memphis, Tenn., Minneapolis, Minn., Atlanta, Ga., Portland, Ore.